STIC Search Report
EIC 3700

STIC Database Tracking Number: 175742

TO: John Kim
Location: RND 6d28
Art Unit: 3733

Serial: 10/789610

From: Jeanne Horrigan
Location: RND 8B31
Phone: 571-272-3529

jeanne.horrigan@uspto.gov

Search Notes

Attached are the search results for the rod reducer rotatable plate. Although I understood what you are looking for, I did not understand many of the abstracts in the results. I tried to tag items that seemed most relevant to me, but I suggest that you review ALL of the results.

Also attached is a search feedback form. Completion of the form is voluntary. Your completing this form would help us improve our search services.

I hope the search results are useful. Please feel free to contact me if you have any questions or want additional searching on this application.

STIC Search Results Feedback Form

EIC 3700

Questions about the scope or the results of the search? Contact ***the EIC searcher or contact***:

John Sims, EIC 3700 Team Leader
RND 8B35, Phone 2-3507

Voluntary Results Feedback Form

- *I am an examiner in Workgroup:* ☐ *Example: 3730*
- *Relevant prior art **found**, search results used as follows:*
  - ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
  (journal articles, conference proceedings, new product announcements etc.)

- *Relevant prior art **not found**:*
  - ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/EIC3700 RND 8B31

```
File 155:MEDLINE(R) 1951-2006/Feb 13
         (c) format only 2006 Dialog
File   5:Biosis Previews(R) 1969-2006/Feb W2
         (c) 2006 BIOSIS
File  73:EMBASE 1974-2006/Feb 16
         (c) 2006 Elsevier Science B.V.
File  94:JICST-EPlus 1985-2006/Nov W4
         (c)2006 Japan Science and Tech Corp(JST)
File 144:Pascal 1973-2006/Jan W4
         (c) 2006 INIST/CNRS
File   8:Ei Compendex(R) 1970-2006/Feb W1
         (c) 2006 Elsevier Eng.  Info. Inc.
File  99:Wilson Appl. Sci & Tech Abs 1983-2006/Jan
         (c) 2006 The HW Wilson Co.
Set     Items   Description
S1     629025   PLATE OR PLATES
S2     257906   SHEET? ?
S3     888592   SHAFT? ? OR ROD OR RODS OR AXLE? ? OR POLE OR POLES
S4    2229279   HOLE OR HOLES OR APERTURE? ? OR OPENING? ? OR CAVITY OR CA-
              VITIES OR HOLLOW OR HOLLOWS OR SPACE OR SPACES OR BORE OR BORES
S5    1148885   PIVOT? OR ROTAT? OR TWIST? OR SWIVEL? OR TURN???
S6      22320   S1:S2(10N)S4
S7      17528   S3(10N)S5
S8         37   S6(S)S7
S9         33   RD  (unique items)
S10        33   Sort S9/ALL/PY,A
S11       362   S1:S2 AND S3 AND S4 AND S5
S12    750290   SPINE OR SPINAL
S13   5485102   REDUCE?? OR REDUCING OR REDUCTION
S14    680989   ROD OR RODS
S15      1000   S12 AND S13 AND S14
S16         5   S11 AND S15
S17         1   RD  (unique items)
S18         5   S12 AND S13 AND S11
S19         0   S18 NOT S16
S20       190   S14(N)S13
S21         0   S20 AND S11
S22       191   S1:S2(S)S3(S)S4(S)S5
S23       150   S22 NOT (S8 OR S16)
S24       123   RD  (unique items)
S25        25   S6 AND S24
S26        25   Sort S25/ALL/PY,A
S27      1659   S1:S2(1N)S3
S28        15   S11 AND S27
S29         7   S28 NOT (S8 OR S16 OR S25)
S30         7   RD  (unique items)

17/7/1     (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.
11200150   PMID: 8578371
Biomechanical evaluation of anterior thoracolumbar spinal instrumentation.
  An H S; Lim T H; You J W; Hong J H; Eck J; McGrady L
  Department  of  Orthopaedic  Surgery,  Medical  College  of  Wisconsin,
Milwaukee, USA.
  Spine (UNITED STATES)   Sep 15 1995,  20  (18)  p1979-83,  ISSN 0362-2436
```

Journal Code: 7610646
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

STUDY DESIGN: A biomechanical study was designed to assess relative construct stabilities of modern anterior thoracolumbar instrumentations in a calf **spine** model with an anterior and middle column defect. OBJECTIVES: The purpose is to compare the biomechanical stability of various anterior fixation devices in an unstable calf **spine** model. SUMMARY OF BACKGROUND DATA: Modern types of anterior thoracolumbar instrumentations evolved to either **rods** or **plates**. Biomechanical properties and comparative studies of these instrumentations are lacking. METHODS: Twenty fresh calf **spines** (L2-L5) were used for the biomechanical tests. L2 and L5 vertebrae were used to attach the loading and base frames, respectively. Specimens underwent nondestructive biomechanical tests performed using a three-dimensional motion measuring system. In each specimen, three different cases were tested: intact **spine**, anterior fixation with an interbody graft after total discectomy and end**plate** excision of L3-L4 disc, anterior fixation only without the graft. Four anterior fixators, University Anterior Plating System, the Kaneda device, the Z-**plate**, and Texas Scottish Rite Hospital system were used. Each device was tested on five specimens. A polymethylmethacrylate block was inserted into the disc **space** to simulate the interbody grafting, and a fixation device was implanted with axial compression. **Rotat**ional angles of the L3-L4 segment stabilized by a fixation device and graft were normalized by the corresponding angles of the intact specimen to study the overall stabilizing effects. RESULTS: With the interbody graft and fixation devices, all showed significant stabilizing effects in flexion, extension, and lateral bending. All devices restored axial **rotat**ion stability to intact specimen, but only the Kaneda device restored the torsional stability beyond the intact specimen. No statistical differences in stabilizing effects in axial **rotat**ion were found between any of the tested devices. When the graft was removed, the Kaneda device significantly decreased the motions in all directions compared with the intact motion, whereas the University **plate** decreased the motions in flexion, extension, and lateral bending. The Texas Scottish Rite Hospital system was found to **reduce** the flexion and lateral bending motions significantly, and Z-**plate** decreased lateral bending motions only. Stabilizing effects of the interbody graft were significant in lateral bendings for all devices. Additionally, the significant stabilizing role of the graft was noted in flexion and extension in Z-**plate** only. The graft did not significantly **reduce** the axial **rotat**ion motion in any instrumentations. CONCLUSIONS: Modern anterior instrumentations for the thoracolumbar **spine**, such as the Kaneda device, Texas Scottish Rite Hospital system, Z-**plate**, and University **plate**, restored the stability in all motions when an interbody graft was inserted. The stability of fixation devices revealed that the Kaneda device is the best, particularly in restoring the torsional stability. The information on the relative stability provided by different instrumentations should help the **spine** surgeon in choosing the appropriate instrumentation for the particular circumstance.

Record Date Created: 19960312
Record Date Completed: 19960312

10/7/1 (Item 1 from file: 5)

DIALOG(R)File 5:Biosis Previews(R)

0002149057 BIOSIS NO.: 197763069913
A MODIFICATION TO FACILITATE ATTACHMENT OF LARGE OBJECT TABLES TO THE JUNG TETRANDER I MICROTOME
AUTHOR: WINSOR L
JOURNAL: Stain Technology 51 (6): p312-313 1976
ISSN: 0038-9153
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: Unspecified
ABSTRACT: The original bolt **holes** in the object table base were extended clockwise as slots 25 mm long parallel to the periphery of the base. The ends of these slots away from the original bolt **holes** were enlarged to **holes** of 12 mm diameter so as to accept the bolt head and attached washer. The washers were soldered to the under-lips of the bolt heads. To fit the modified object table to the microtome, the bolts were partly screwed into place in the cylindrical object slide. The object **plate** was then positioned so that the large **holes** fitted over the bolts, and then **twisted** clockwise so that the bolt **shafts** slid laterally into the narrow portions of the bolt slots. The end of **rotat**ional travel resulted in the correct alignment of the object table. The bolts were then tightened using a long handled ring spanner (box wrench) to avoid operator contact with the frozen object table. The use of this simple modification resulted in **reduce**d specimen thawing and minimized the possibility of injury to the operator during precutting procedures.

10/7/11 (Item 11 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

13340165 PMID: 10206251
Schuhli augmentation of plate and screw fixation for humeral shaft fractures: a laboratory study.
Simon J A; Dennis M G; Kummer F J; Koval K J
Department of Orthopaedic Surgery, Hospital for Joint Diseases Orthopaedic Institute, New York, New York 10003, USA.
Journal of orthopaedic trauma (UNITED STATES) Mar-Apr 1999, 13 (3) p196-9, ISSN 0890-5339 Journal Code: 8807705
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed
OBJECTIVES: Schuhli locking nuts provide a mechanism to lock 4.5-millimeter bone screws to a standard dynamic compression **plate** (DCP **plate**). It has been proposed that Schuhlis can provide increased fixation stability in areas of a proximal cortical defect or osteopenic bone and may keep screws from loosening and backing out from the **plate**. A biomechanical study was performed to investigate the effect of Schuhli augmentation of a ten-**hole** broad DCP **plate** for fixation of a simulated humeral **shaft** fracture versus standard DCP **plate** fixation. DESIGN: Biomechanical cadaver study. INTERVENTION: Six pairs of cadaveric humeri from elderly individuals were tested in offset axial loading, torsion, and four-point bending to obtain load versus deformation curves and baseline mechanical properties. Each pair of humeri was then instrumented with a ten-**hole** broad DCP **plate** on one

side and a DCP **plate** augmented with Schuhlis at each screw **hole** on the contralateral side. All screws were placed in cortical bone. The constructs were retested in all three modalities. The humeri were then cycled in torsion for 1,000 cycles and retested in all three modalities. Each humerus was then loaded to failure in torsion to determine the ultimate load and **rotational** displacement. MAIN OUTCOME MEASUREMENTS: Resistance to displacement was determined from the load versus deformation curves in each testing modality before and after cycling; these data were normalized to the intact values determined prior to instrumentation. Paired Student's t tests were performed to determine statistically significant differences between the two modes of fixation. RESULTS: There were no significant differences in stability between the two fixation techniques in all three testing modalities both before and after cycling. However, the Schuhli augmented constructs sustained significantly greater loads and **rotational** deformations prior to failure. CONCLUSIONS: In this model of humeral **shaft** fractures in the elderly, the addition of Schuhlis did not significantly change the mechanical stability of **plate** and screw fixation. However, load and angular deformation at failure were significantly greater in the Schuhli augmented specimens.
Record Date Created: 19990527
Record Date Completed: 19990527

10/7/13 (Item 13 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2006 Dialog. All rts. reserv.
13605394 PMID: 11232661
Mechanical comparison of endosteal substitution and lateral plate fixation in supracondylar fractures of the femur.
Prayson M J; Datta D K; Marshall M P
Department of Orthopaedic Surgery, University of Pittsburgh Medical Center, Pennsylvania 15213, USA.
Journal of orthopaedic trauma (United States) Feb 2001, 15 (2) p96-100, ISSN 0890-5339 Journal Code: 8807705
Publishing Model Print
Document type: Evaluation Studies; Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed
OBJECTIVE: To assess for improved rigidity with the addition of a medial endosteal **plate** to laterally **plated** supracondylar femoral fractures. DESIGN: A randomized paired study in a supracondylar femoral fracture model comparing two fixation methods tested cyclically in axial and torsional loading. METHODS: One-centimeter supracondylar gap osteotomies were created in twenty synthetic femurs approximately six centimeters proximal to the knee joint. Ten were stabilized with a lateral eight-**hole** buttress **plate** alone, and ten were secured by a similar lateral buttress **plate** plus a medial endosteal eight-**hole** dynamic compression **plate**. Group 1 (n = 5; lateral **plate** alone) and Group 2 (n = 5; lateral and endosteal **plates**) were axially loaded up to 700 newtons through a materials test system for three cycles. A displacement transducer detected movement at the medial fracture gap. Group 3 (n = 5; lateral **plate** alone) and Group 4 (n = 5; lateral and endosteal **plates**) were tested in torsion. A **rod** -and-pulley system created an external **rotation** torque up to twenty Newton-meters for three cycles. A rotary potentiometer measured angular displacement. RESULTS: Lateral buttress plating with endosteal substitution showed statistically

significant decreased motion at the fracture site in torsional ($p < 0.004$) and axial loading ($p < 0.0001$) versus lateral buttress plating alone using Student's t test. CONCLUSION: The addition of a 4.5-millimeter endosteal **plate** to a lateral buttress **plate** provides significantly increased stability, as compared with lateral plating alone in a femoral supracondylar fracture model during simulated axial and torsional loading. Neither fixation construct, however, restored the torsional stability of the distal femur to its preinjury (intact) level.
Record Date Created: 20010305
Record Date Completed: 20010607

10/7/14 (Item 14 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0013347152 BIOSIS NO.: 200100518991
Expandable acetabular reaming system
AUTHOR: Temeles Randy S (Reprint)
AUTHOR ADDRESS: 10 Floral Dr., Wheeling, WV, 26003, USA**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1250 (1): Sep. 4, 2001 2001
MEDIUM: e-file
ISSN: 0098-1133
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: An expandable acetabular reaming system for use in hip replacement surgery comprises a reamer head having a convex forward surface attached to a base **plate** that defines an interior **space** therebetween. The forward surface includes a plurality of **apertures** therethrough. The base **plate** includes a central **aperture** over which a flexible bladder is mounted within the interior **space**. The reaming system further includes a plurality of cutting blades mounted to the bladder and positioned so as to correspond with respective **apertures**. An air cylinder is coupled to the underside of the base **plate** and includes an open top in communication with the bladder through the central **aperture** of the base **plate**. A threaded **shaft** extends through a threaded **aperture** in a bottom wall of the air cylinder and is coupled to a thimble-type knob. As a user **turns** the knob, the **shaft rotates** to force air through the base **plate aperture** so as to inflate the bladder. **Turn**ing the knob in an opposite direction deflates the bladder in like manner. The blades are projected through respective **apertures** as the bladder is inflated and are retracted as the bladder is deflated.

10/7/15 (Item 15 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0013186961 BIOSIS NO.: 200100358800
Cooker die and rotary cutter removably securing mechanism
AUTHOR: Weinstein James N (Reprint)
AUTHOR ADDRESS: Maple Grove, MN, USA**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1243 (3): Feb. 20, 2001 2001
MEDIUM: e-file
ISSN: 0098-1133

DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: A mechanism (10) includes a slide **plate** (32) having die **openings** (38) adapted to hold dies (42a, 42b) and slideable relative to a cooker/extruder (12). Rotary cutters (74, 174) are **rotat**ably mounted relative to and moveable with the dies (42a, 42b). In one preferred form, a motor (76) can be connected and disconnected to the rotary cutter (74) aligned with the cooker/extruder (12) by moving a male coupling (96) within or out of a female coupling (108). In another preferred form, the rotary cutter (174) is mounted to and carried exclusively by a center **shaft** (180) fixed to the die (42a, 42b) and includes provisions (187, 191) located within a housing (183) for **rotating** the housing (183) on the center **shaft** (180). Thus, it is not necessary to shut down the cooker/extruder (12) to service or change the dies (42a, 42b) and/or the rotary cutters (74, 174). An annular wear **plate** (134) is sandwiched between the slide **plate** (32) and a frame element (18) having a central **aperture** (126) into which the barrel (14) of the cooker/extruder (12) is slideably received. A center **plate** (130) extends through the wear **plate** (134) and is received within the central **aperture** (126) and is fastened to the barrel (14). Mixer elements (59) are retained in the subpassageways (124) of the barrel (14) by the center **plate** (130) and can be removed through one of the die **openings** (38) when the die (42a, 42b) is removed therefrom and without removal of the barrel (14) from the frame element (18).

10/7/23 (Item 23 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0014498700 BIOSIS NO.: 200300457379
Garbage treatment apparatus
AUTHOR: Suzuki Mitsuru (Reprint); Araki Yukio
AUTHOR ADDRESS: 13-7, Kitaterao 1-chome, Turumi-ku, Yokohama City, Kanagawa, 230-0074, Japan**Japan
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1274 (1): Sep. 2, 2003 2003
MEDIUM: e-file
ISSN: 0098-1133 _(ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: A garbage treatment apparatus of the type which includes a cylindrical container formed to store an amount of porous inorganic balls containing microorganism effective for decomposition of garbage and to store an amount of garbage to be treated, a **rotation shaft** vertically mounted for rotary movement in a central portion of the container, a driving mechanism mounted on the container for driving the **rotation shaft**, a screw propeller assembly mounted to a lower portion of the **rotation shaft** for **rotation** therewith to feed downward the inorganic balls and garbage stored in the container, a flow adjustment **plate** in the form of a truncated conical **plate** mounted within a bottom portion of the container concentrically with the **rotation shaft** and placed in an upwardly expanded condition, and a rotary disk horizontally mounted to a lower end of the **rotation shaft** for **rotation** therewith and placed under the propeller assembly, **the rotary disk being coupled with the flow**

adjustment plate to close a lower end opening of the adjustment plate and being rotatable relative to the flow adjustment plate. In the treatment apparatus, the inorganic balls and garbage stored in the container are agitated by the propeller assembly during **rotation** of the **rotation shaft** and moved downward at the central portion of the container to flow upward along the flow adjustment **plate** and the inner peripheral wall of the container.

10/7/25 (Item 25 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0014345144 BIOSIS NO.: 200300313863
Surgical device and method for connection of fractured bones
AUTHOR: Gotfried Yechiel (Reprint)
AUTHOR ADDRESS: 10, Ben-Gurton Ave., 27000 Kiriat Blalik, Israel**Israel
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1271 (2): June 10, 2003 2003
MEDIUM: e-file
ISSN: 0098-1133 _(ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: A screwdriver for re-joining first and second pieces of a fractured bone in cooperation with a connector **plate**. A screw has an screw-shaped inner end for biting into the bone upon passing through a **bore** of the connector **plate**, and out of a **hole** in the first bone piece. The screwdriver includes a first **shaft** unit to engage and **rotate** the screw to move the screw axially, and a second **shaft** unit to **rotate** an axially movable sleeve. Axial movement of the first **shaft** unit moves the screw so that the outer end of the screw passes through the sleeve and into the second **shaft** unit such that the inner end of the screw protrudes inwardly from an inner end of the sleeve, whereby a threaded outer end of the sleeve is engaged with the **bore** of the connector **plate** before the screw is driven into the bone.

10/7/26 (Item 26 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0014270208 BIOSIS NO.: 200300238927
Reciprocally moving apparatus for driving massage device
AUTHOR: Wu Dong-Her (Reprint)
AUTHOR ADDRESS: No.141, Sec.2, Chang-Shui Road, Pu-Yen Hsiang, Chang-Hua Hsien, Taiwan**Taiwan
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1269 (4): Apr. 22, 2003 2003
MEDIUM: e-file
ISSN: 0098-1133 _(ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: A reciprocally moving apparatus used in a massage machine comprises a long driven **shaft** having two ends **pivot**ably installed in a base **plate** and also inserted into a sleeve **hole** at the lower side of a bottom mount of a massage device. The center section of the driven

shaft includes a clockwise helical trench and a counter-clockwise helical trench which are arranged along a surface of the driven **shaft** and are crossed over one another alternatively and the ends of the two trenches are connected. The upper side of the center section area of the bottom mount serves for installing a cylindrical active link block having a guide **plate**. The guide **plate** has two tips at the upper side and inserts into one of the two tracks. Therefore, the driven **shaft** can be driven to move along the trenches reciprocally.

10/7/27 (Item 27 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0014203030 BIOSIS NO.: 200300161749
Orthopaedic rod/plate locking mechanism
AUTHOR: Selvitelli David M (Reprint); Reynolds Martin A; Doherty Thomas V
AUTHOR ADDRESS: Wellesley, MA, USA**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1267 (4): Feb. 25, 2003 2003
MEDIUM: e-file
ISSN: 0098-1133 _(ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: An orthopaedic junction or anchor assembly for anchoring a linkage such as a **rod** or cable used for fixation or **reduction**. The assembly includes a slotted bolt that fits through an **apertured plate**, and a support platform that fits over the bolt, capturing the **plate** in a one-piece assembly for convenient installation. The base of the bolt is recessed in the **plate** and a cap or nut tightens down to secure the linking member, e.g., a **rod** or cable, in the bolt slot, simultaneously clamping the bolt to fix both its position and its orientation on the **plate**. The support platform has the form of a generally annular washer with an upper surface including a transverse groove on which the rod seats, and a lower surface abutting the **plate**. A sleeve potion may extend within and buttress the surrounding wall of the **plate**. The **plate** may take various forms, such as a hook or offset arm, an occipital T-**plate**, or a vertebra **plate**. In one embodiment the support platform is swaged to the bolt, allowing the bolt to **rotate** freely, and slide along the slot of the bone **plate** as a captive assembly, keeping all the components together without constraining the alignment during installation. Other embodiments employ mating ridge and groove, or other detents circumferentially on the bolt **shaft** and the inner face of the support, to snap and retain the pieces together. When the **rod** or other linkage has been positioned, a lock nut or cap then fastens onto the bolt to seat the **rod** against the support platform and lock both the position of the bolt and the angular orientation of its slot. Tightening the nut or cap pushes the rod downward to seat on the support **plate** and pulls the bolt upward to press the base of the bolt against the bottom of the **plate**. The bottom surfaces of the support washer as well as the **plate**-facing surface of the base may be roughened or textured to engage the **plate**, or otherwise increase resistance to **rotational** and lateral movement once the **rod** has been positioned and the nut is torqued down.

26/7/1 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

01331696 EMBASE No: 1979052355
Experiences in knee joint arthroplasty using silicone sheet
Kikuchi Y.; Miura T.; Sakuma S.
Dept. Orthop. Surg., Oji Gen. Hosp., Oji Japan
Hokkaido Journal of Orthopedic and Traumatic Surgery (HOKKAIDO J. ORTHOP. TRAUM. SURG.) (Japan) 1976, 21/1-2 (20-23)
CODEN: HSGZA
DOCUMENT TYPE: Journal
LANGUAGE: JAPANESE SUMMARY LANGUAGE: ENGLISH

In bringing about the reconstruction of function in knee joint contractures resulting from various causes, until now a variety of interpositional membranes have been considered. On the other hand, recently silicone for medical use has attracted attention. It has been used in silicone **rod** and artificial joints and it has been proved that there is little tissue reaction to it. With these points in mind, the authors **turned** their sights on using silicone **sheet** as an interpositional membrane following arthroplasty of the joint. Up to the present, they have used it in 5 cases of knee joint contracture caused by trauma. The skin incision for the joint arthroplasty was made by the Mori method. After release of adhesions in the suprapatellar pouch and the medial and lateral outer pouch, a silicone **sheet** of 0.175 mm-0.5 mm thick, shaped in the form of a boomerang, was inserted. The silicone **sheet** was removed in the 11th-13th wk after the joint arthroplasty, and the newly formed joint **cavity** was found to be white and glossy smooth. The post-operative periods vary from 1 yr and 8 mth to 6 mth. The range of motion achieved is satisfactory. Based on the histology of tissue specimens gained from the interior of the newly formed knee joint **cavity** , there being little tissue reaction to silicone **sheet** , this seems to be the material that should be used in the future.

26/7/5 (Item 5 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

03343421 E.I. Monthly No: EI9112151562
Title: Flow in the wake of a freely rotatable cylinder with splitter plate.
Author: Cimbala, J. M.; Garg, S.
Corporate Source: Pennsylvania State Univ, University Park, PA, USA
Source: AIAA Journal v 29 n 6 Jun 1991 p 1001-1003
Publication Year: 1991
CODEN: AIAJAH ISSN: 0001-1452
Language: English
Document Type: JA; (Journal Article) Treatment: X; (Experimental)
Journal Announcement: 9112

Abstract: It is well known that a rigidly mounted splitter **plate** , placed behind a circular cylinder in crossflow, **reduces** both the cylinder drag and the strength of the shed vortices. Splitter **plates** have therefore found practical applications, such as suppression of vibration of pitot-static probes in wind and water tunnels. The present work was motivated by the desire to suppress the vibration of a five- **hole** probe in a water flow, where the oncoming flow direction can be inclined several degrees from the freestream direction, and is not known a priori. In such a case, it was thought that a freely rather than rigidly mounted splitter **plate** attached to the probe **shaft** would adjust itself like a weather vane to the changing flow direction. For long **plates** this was indeed the

case, but for shorter **plates** an unexpected phenomenon was observed. Presented in the paper are smoke-wire visualizations and shedding frequency measurements in the wake of the cylinder/splitter **plate** body. Comparisons are made between the plain cylinder, the cylinder with a splitter **plate** rigidly fixed at theta equals 0 deg, and the freely **rotatable** cylinder/splitter **plate** body. 7 Refs.

26/7/12 (Item 12 from file: 144)
DIALOG(R)File 144:Pascal

14144204 PASCAL No.: 99-0341212
Posterior cervical arthrodesis and stabilization : An early report using a novel lateral mass screw and rod technique. Commentaries
HORGAN M A; KELLOGG J X; CHESNUT R M; COOPER P R comment; BALDWIN N G comment; SONNTAG V K H comment; FESSLER R G comment
Department of Neurosurgery, Oregon Health Sciences University, Portland, Oregon, United States
Journal: Neurosurgery, 1999, 44 (6) 1267-1272
ISSN: 0148-396X CODEN: NRSRDY Availability: INIST-18396; 354000084816250120
No. of Refs.: 15 ref.
Document Type: P (Serial) ; A (Analytic)
Country of Publication: United States
Language: English
OBJECTIVE: Posterior cervical arthrodesis and stabilization with lateral mass **plates** is a biomechanically sound construct in multiple planes of motion. It is reproducible and especially useful when the posterior elements are missing or fractured. Unfortunately, it is difficult to use in patients with severe degenerative spondylosis because the **plate** is malleable only in the sagittal plane and the screw positions are dictated by the **plate**'s entry **holes**. METHODS: A novel system of lateral mass screws that can be positioned before placement of a lateral construct was used in nine patients. Their outcomes as well as the technical applications of this system were reviewed. RESULTS: A total of 52 screws were placed in nine patients who underwent posterior cervical arthrodesis with the Cervifix system (Synthes USA, Paoli, PA). Diagnoses included trauma in four patients, degenerative spondylosis in three, and tumor in two. **Rods** were molded individually according to the patient's anatomy. Compression, distraction, and lateral **rotation**, if indicated, were performed. Follow-up veraged 36 weeks. Lateral and anteroposterior radiographs, obtained at progressive intervals, revealed excellent fixation and screw purchase without pull-out. There were no cases of **spinal** cord, nerve root, or vertebral artery injury. CONCLUSION: The Cervifix system accommodates variation in anatomic size and spacing of the lateral masses, potentiating precise screw placement. The **rods** can be molded in multiple planes, and selective application of compressive, distractive, or lateral **rotatory** forces is allowed. The system is very straightforward and simple to use, and we have had good success without pseudarthrosis or complications from screw placement in our series.

30/7/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0014344099 BIOSIS NO.: 200300301918

Intervertebral distractor and implant insertion instrument
AUTHOR: Lin Jo-Wen (Reprint)
AUTHOR ADDRESS: Tinton Falls, NJ, USA**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1270 (4): May 27, 2003 2003
MEDIUM: e-file
ISSN: 0098-1133 _(ISSN print)
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: A distractor/guide sleeve assembly is provided which includes a body having a cylindrical through**bore** and a distractor assembly mounted thereon. The distractor assembly includes a **rotatable** dial, a pair of distractor **rods** , and two pairs of jaws. A **plate** is secured to the distal end of each distractor **rod** . Each **plate** includes a plurality of cam members which are slidably positioned in cam slots formed in the jaws of each of the pairs of jaws. The dial is operably connected to the jaws via the distractor **rods** such that **rotation** of the dial effects movement of the pairs of jaws between approximated and distracted positions. An insertion tool is also provided which includes a handle and distal engaging structure for releasably engaging an implant. The engaging structure includes a pair of prongs or protrusions having a slip resistant outer surface. The prongs are configured to be releasably received within correspondingly shaped **bores** formed in an implant.

30/7/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2006 BIOSIS. All rts. reserv.
0012567895 BIOSIS NO.: 200000286208
Lateral connector assembly
AUTHOR: Sherman Michael C (Reprint); Ray Eddie; Drewry Troy; Shapiro David
AUTHOR ADDRESS: Highland Park, IL, USA**USA
JOURNAL: Official Gazette of the United States Patent and Trademark Office Patents 1228 (1): Nov. 2, 1999 1999
MEDIUM: e-file
ISSN: 0098-1133
DOCUMENT TYPE: Patent
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: A lateral connector assembly for connecting a bone engaging fastener to an elongated member, such as a **spinal rod** includes a lateral connector having an elongated **opening** for receiving a portion of the bone engaging fastener therethrough. The lateral connector includes a **plate** portion and an integral yoke portion, which yoke portion is attached to the elongated member by way of a clamp. The lateral connector assembly can include variable angle means between the clamp and the yoke portion of the lateral connector that permits **rotation** of the lateral connector about an axis projecting outward from the **spinal rod**. The **plate** portion and the yoke portion of the lateral connector are oriented at non-perpendicular angles, preferably an angle greater than 100 degrees. In a further embodiment the **plate** portion of the lateral connector is curved so that as the bone engaging fastener slides along the elongated **opening**, it assumes variable angular orientations relative to the lateral connector assembly and the elongated **rod**.

```
File 149:TGG Health&Wellness DB(SM) 1976-2006/Jan W5
         (c) 2006 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2006/Feb 16
         (c)2006 The Gale Group
File  47:Gale Group Magazine DB(TM) 1959-2006/Feb 16
         (c) 2006 The Gale group
File  16:Gale Group PROMT(R) 1990-2006/Feb 15
         (c) 2006 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2006/Feb 16
         (c) 2006 The Gale Group
File  80:TGG Aerospace/Def.Mkts(R) 1982-2006/Feb 15
         (c) 2006 The Gale Group
File 649:Gale Group Newswire ASAP(TM) 2006/Feb 10
         (c) 2006 The Gale Group
File 141:Readers Guide 1983-2004/Dec
         (c) 2005 The HW Wilson Co
File 484:Periodical Abs Plustext 1986-2006/Feb W2
         (c) 2006 ProQuest
File 635:Business Dateline(R) 1985-2006/Feb 15
         (c) 2006 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2006/Feb 15
         (c) 2006 The Gale Group
Set     Items   Description
S1     383392   PLATE OR PLATES
S2    1559868   SHEET? ?
S3     479040   SHAFT? ? OR ROD OR RODS OR AXLE? ? OR POLE OR POLES
S4    4533705   HOLE OR HOLES OR APERTURE? ? OR OPENING? ? OR CAVITY OR CA-
             VITIES OR HOLLOW OR HOLLOWS OR SPACE OR SPACES OR BORE OR BOR-
             ES
S5    4512476   PIVOT? OR ROTAT? OR TWIST? OR SWIVEL? OR TURN???
S6       5383   S1:S2(3N)S3
S7      18947   S1:S2(10N)S4
S8         37   S6(S)S4(S)S5
S9         32   RD  (unique items)
S10        32   Sort S9/ALL/PD,A
S11        56   S7(S)S3(S)S5 NOT S8
S12        49   RD  (unique items)
S13     18577   S3(10N)S5
S14        27   S11(S)S13
S15        23   RD  (unique items)
S16        23   Sort S15/ALL/PD,A
S17        26   S12 NOT S14
S18        26   Sort S17/ALL/PD,A

10/3,K/3     (Item 3 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)
(c) 1999 The Gale Group. All rts. reserv.
01569477
NEW TOL-O-MATIC ROTARY ACTUATORS NOW HAVE INFINITELY ADJUSTABLE STOPS.
NEWS RELEASE  November 18, 1986  p. 11
    ... to disassemble the actuator, the new design features an external
stop that infinitely adjusts the rotation of the actuator throughout its
stroke. Available in 1-3/4" and 2-1/2" bore sizes, these improved
Tol-O-Matic Rotary Actuators are vane type with high torque, light...
```

... compact design compared to bulkier "rack and pinion" actuators. Applications include robotic "wrist" operations, valving, **opening** - closing and clamping where precise, consistent actuation is required. Tol-O-Matic's external stops...

... Both rings have a boss extending in and interacting with a paddle keyed to the **shaft** . Compression **plates** can be loosened and the rings **rotated** . When the rings are located to allow for the desired **rotation** , the compression **plates** are then tightened, locking the rings into position. The **shaft**, in conjunction with the paddle, then **rotates** between the two bosses on the rings. Stops can be adjusted for any degree of **rotation** in any location of the stroke range of the actuator. Construction features include: actuator housing...

10/3,K/10 (Item 10 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.
05897416 SUPPLIER NUMBER: 12429029 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Rotary assembly machines respond to modern needs.
Iversen, Wesley R.
Assembly, v35, n5, p18(3)
June, 1992
ISSN: 1050-8171 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1765 LINE COUNT: 00141
... tooling to be centered, facing out. Pneumatic or electrical services were provided through a center **hole** to either **rotating** or reciprocating **shafts** to actuate the tooling.
This was an important change. Indeed, according to...

10/3,K/11 (Item 11 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.
06439781 SUPPLIER NUMBER: 13750891 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Equipment protection: lock it or lose it! (includes related article on protective device costs)
Bowers, Dan M.
Modern Office Technology, v38, n4, p30(3)
April, 1993
ISSN: 0746-3839 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1674 LINE COUNT: 00130
... protected equipment, both to provide greater security against theft and in some cases to prevent **opening** of hatches which provide access to internal components. Some pads have **swivels** or tilts; many are targeted for the dimensions of particular makes and models of equipment...

10/3,K/14 (Item 14 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)
(c) 2006 The Gale Group. All rts. reserv.
01296674 Supplier Number: 45613223 (USE FORMAT 7 FOR FULLTEXT)
LINE OF PRESSURE PLATE FILTERS FROM KOMLINE-SANDERSON
News Release, pN/A
June 19, 1995

Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 619
(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...dry cake is by means of a unique, automatic vibration system. The complete set of **plates** , with **hollow** **shaft** and drive arm, are flexibly arranged on a rubber support ring. Two unbalance motors - mounted...
...pasty and thixotropic residuals without contact with the vessel's wall - a common problem with **rotating** -type cake-discharge mechanisms.

10/3,K/18 (Item 18 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2006 ProQuest. All rts. reserv.
04306823 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Installing and removing pinions
Gimlick, Greg
Model Airplane News (IMAI), v127 n7, p88-90, p.2
Jul 1999
ISSN: 0026-7295 JOURNAL CODE: IMAI
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1551
TEXT:
... 30. On its pinion end, this tool has a **plate** in a normal gearbox with **holes** that accommodate a wide range of motors and let you see your progress. At the...
...automatically centers the motor **shaft** as you place it in the motor. The outer threaded **rods** allow the end **plates** to be adjusted to fit every motor I've come across, and you can adjust...
...having to adjust the outer **plates**. When everything is lined up, you only have to **turn** the socket bolt with an Allen wrench until the pinion is where you want it...

10/3,K/32 (Item 32 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2006 ProQuest. All rts. reserv.
06789668 SUPPLIER NUMBER: 835687841 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Though simple and solid, the M1895 Nagant revolver was obsolete when Russia adopted it
Scarlata, Paul S
Military History (FMLH), v22 n3, p24, 80-81, p.3
Jun 2005
ISSN: 0889-7328 JOURNAL CODE: FMLH
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1907
TEXT:
... Nagant revolvers displayed several notable characteristics, among which were the ejection system and removable side **plate** .
The ejector **rod** was stored in the **hollow** cylinder pin. When unscrewed and withdrawn, a barrel collar held it just in front of...
...being spring loaded, the **rod** had to be manually withdrawn before the cylinder could be **rotated** to present the next chamber. The left side of

the frame consisted of a separate...

10/7/16 (Item 16 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2006 The Gale Group. All rts. reserv.
03914002 Supplier Number: 50125622 (THIS IS THE FULLTEXT)
-BIMBA MANUFACTURING: New ultra-compact pneumatic cylinders designed for long life
M2 Presswire, pN/A
July 2, 1998
TEXT:
M2 PRESSWIRE-2 July 1998-BIMBA MANUFACTURING: New ultra-compact pneumatic cylinders designed for long life (C)1994-98 M2 COMMUNICATIONS LTD RDATE:070198 As mechanical functions become increasingly automated and compact, the need for actuators to meet these requirements is growing. The EF1 and EF2 pneumatic cylinders from Bimba Manufacturing Company target this need in metric machine applications. Both models have **bore** sizes of 12mm to 100mm, with stroke lengths of 5mm to 100mm. Each is based on an identical precision extrusion that features integral mounting grooves for flush installation of miniature sensing switches. Key to the improved durability is the cylinder's low friction, PTFE impregnated, aluminum extruded body, combined with long lasting bearings and seals, that result in an expected service life of 2500Km of stroke travel. Also contributing to the extended operating life are chrome **plated** steel guide **shafts**, self lubricating nylon bearings and nitrile seals. Pneumatic actuation of mechanical functions varies from basic, non-critical applications such as material handling, to more precise uses in robotics, office automation and machine tools. The company reports that the metric, EF1/EF2 models are ideal for new or replacement installation in confined **spaces** , and will appeal to designers of automation systems and machinery. The EF2 cylinder is double acting and non- **rotating** with guide **shafts** and a tooling **plate** for guided motion tasks. The Bimba Manufacturing Company, located in Monee, Illinois, USA, manufactures a full range of pneumatic and electro-pneumatic actuators. The company has three manufacturing facilities in the United States and one in the United Kingdom, each of which maintains a full inventory to provide rapid customer support. To assist design engineers, CAD drawings are available from Bimba's Web site at www.bimba.com. Bimba's products will be exhibited at the following venues: Mexican Manufacturing Week, September 10-13 1998, Mexico City Hannover Messe, April 19-24 1999, Hannover Information about other exhibition venues is posted on the company's web page at www.bimba.com.htm CONTACT: Mr. William Kokum, Bimba Manufacturing Company Tel: +1 708 534 8544 Fax: +1 708 534 5767 Mr. Michael McElligott, Bimba Manufacturing Co. Tel: +44 (0)1733 391078 Fax: +44 (0)1733 391080 *M2 COMMUNICATIONS DISCLAIMS ALL LIABILITY FOR INFORMATION PROVIDED WITHIN M2 PRESSWIRE. DATA SUPPLIED BY NAMED PARTY/PARTIES.*
THIS IS THE FULL TEXT: COPYRIGHT 1998 M2 Communications Subscription: $ unavailable. Published 260 times per year. Contact M2 Communications, PO Box 505, Coventry, England CV2 5YA. Phone 44-1203-634700.
COPYRIGHT 1999 Gale Group

10/7/26 (Item 26 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.

0017832994 SUPPLIER NUMBER: 126755350 (THIS IS THE FULL TEXT)
Twin-rod cylinders double the force.(New product spotlight--Cylinders)
Franzinger, Kathy
Machine Design, 75, 2, 100(1)
Jan 23, 2003
TEXT:

Twin **Rod** air cylinders deliver precise, non**rotat**ing linear motion. The twin-**rod** design **rotates** only <1/3 of a degree, allowing precise rod alignment and **reducing rod** endplay for guided linear motion. A rectangular body simplifies mounting and saves **space**. Integrating two cylinders into one housing produces twice the force of similar-sized conventional cylinders. The cylinders come in single and double-acting models, with strokes from 1/2 to 4 in., built-in fine stroke adjustment, and six **bore** sizes from 1/4 to 1 1/4 in. Integral magnets permit sensor switches on three sides. The **rod** end **plate** accepts a range of other pneumatic devices. Options include End-Keep, which locks **rods** in the event of a pressure loss, and long bushings to accept side loading. Humphrey Products Co., Kilgore at Sprinkle, Box 2008, Kalamazoo, MI 49003, (616) 381-5500, www.humphreyproducts.com Circle 451

(ILLUSTRATION OMITTED)

10/7/30 (Item 30 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

0017729289 SUPPLIER NUMBER: 126316870 (THIS IS THE FULL TEXT)
Lightweight designs turn the tables on the competition.(Materials engineering)
Hoffman, Jean M.
Machine Design, 76, 23, 134(1)
Dec 9, 2004
TEXT:

Three of the four top honors at this year's **rotat**ional molding design competition went to Mity-Lite Inc., Orem, Utah, for their rectangular and circular IntelliCore tables. Sponsored by the Association of **Rotat**ional Molders International, Oak Brook, Ill., the contest's top award, Product of the Year, as well as Innovative State of the Art went to the 42-lb, 29-in.-high, 30 x 72-in. folding table while Conversion honors went to its 60-in.-diameter counterpart. Products in this category, must be converted from some other material or process to **rotat**ional molding.

Mity-Lite uses proprietary foam sandwiched between two skin layers to give the 3/4-in.-thick tables high stiffness-to-weight ratios. Both tables comfortably hold over 1,600 lb. The skin-foam construction features molded-in stiffeners, leg mounting points, and an exceptionally flat surface.

A 5-ft diameter, 10-ft-tall water-powered turbine, dubbed the Mother of All Bridgesharks, chewed up the competition in the Large Product division. The Bridgeshark, from Rotonics Manufacturing Inc. (RMI) removes debris from the bases of bridges as it **rotates** with the velocity of the water.

The Bridgeshark features a series of molded fins made from cross-linked polyethylene. The polymer is strong enough to handle impacts from logs and withstand severe weather. It is UV stabilized to resist sun damage. **Rotat**ional molding lets RMI mold the turbine as one unit with a single parting line. The process also easily accommodates fin wall

thickness transitions of 0.25 to 0.5 in.

The Bridgeshark's interior is molded with two chambers. The upper is filled with 2 lb of polyurethane foam to make the turbine buoyant while the lower, **hollow** chamber fills with water to stabilize the device. This duo chamber construction lets the turbine adjust to changing water levels (including floods), while continuously **rotat**ing to deflect debris. The only secondary operation needed is welding the 16-in.-diameter PE pipe that acts as an **axle** to the **plates** bolted on either end of the Bridgeshark.

Circle 622

MAKE CONTACT:

Association of **Rotat**ional Molders International, (630) 571-0611, rotomolding.org

Mity-Lite Inc., (801) 224-0589, mitylite.com

Rotonics Manufacturing Inc., (310) 327-5401, ratonics.com

16/8/1 (Item 1 from file: 160)
DIALOG(R)File 160:(c) 1999 The Gale Group. All rts. reserv.
01265422
Wobbling Pumps Put Squeeze on Fluids.
September 26, 1985
PRODUCT: *Industrial Sump Pumps (3561332)
EVENT: *Product Standards & Quality (35)
COUNTRY: *United States (1USA)

16/8/2 (Item 2 from file: 148)
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.
02481137 SUPPLIER NUMBER: 03951048 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Basic guide to hydraulic pumps and controls...a look at the family of key "power" elements for hydraulic systems.
Sept 26, 1985
WORD COUNT: 1535 LINE COUNT: 00117
SPECIAL FEATURES: illustration; chart; graph
INDUSTRY CODES/NAMES: ENG Engineering and Manufacturing
DESCRIPTORS: Hydraulic control--Design and construction; Pumping machinery--Design and construction
SIC CODES: 3569 General industrial machinery, not elsewhere classified

16/8/3 (Item 3 from file: 148)
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.
02489761 SUPPLIER NUMBER: 03963026 (USE FORMAT 7 OR 9 FOR FULL TEXT)
How to repair a shower & bath. (D-I-Y Selling Guide)
Oct, 1985
WORD COUNT: 663 LINE COUNT: 00050
SPECIAL FEATURES: illustration; chart
INDUSTRY CODES/NAMES: CNST Construction and Materials
DESCRIPTORS: Plumbing industry--Information services; Faucets--Maintenance and repair; Shower-baths--Maintenance and repair
SIC CODES: 1711 Plumbing, heating, air-conditioning

16/8/6 (Item 6 from file: 160)
DIALOG(R)File 160:(c) 1999 The Gale Group. All rts. reserv.
02107679
Novel separator makes its debut
January 16, 1989

COMPANY:
*Aqua Technology Resource
PRODUCT: *Industrial Water Treat Equip (3569211)
EVENT: *Product Design & Development (33)
COUNTRY: *United States (1USA)

16/8/7 (Item 7 from file: 148)
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.
05135239 SUPPLIER NUMBER: 10552164 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Continuously variable transmissions. (Epilogics Inc., Subaru)
March, 1991
WORD COUNT: 2188 LINE COUNT: 00172
SPECIAL FEATURES: illustration; photograph; chart
COMPANY NAMES: Epilogics Inc.--Product development; Subaru of America Inc.--Innovations
INDUSTRY CODES/NAMES: ENG Engineering and Manufacturing
DESCRIPTORS: Automobile industry--Innovations; Automobiles--Transmission devices; Gearing--Innovations
SIC CODES: 3711 Motor vehicles and car bodies

16/8/9 (Item 9 from file: 148)
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.
06442787 SUPPLIER NUMBER: 13765279 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Miniature devices handle space-limited applications: panel-mount optical encoders. (EDN-Technology Update)(includes list of vendors and glossary of optical-encoder terms) (Column)
March 31, 1993
WORD COUNT: 1466 LINE COUNT: 00118
SPECIAL FEATURES: illustration; photograph; table; chart
INDUSTRY CODES/NAMES: ENG Engineering and Manufacturing
DESCRIPTORS: Encoders--Design and construction

16/8/17 (Item 17 from file: 148)
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.
11901121 SUPPLIER NUMBER: 60964841 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Radial-piston motors help prepare road surfaces.(Brief Article)
March, 2000
WORD COUNT: 441 LINE COUNT: 00037
COMPANY NAMES: Hagglunds Drives AB--Product introduction
INDUSTRY CODES/NAMES: BUSN Any type of business; ENG Engineering and Manufacturing
DESCRIPTORS: Road construction industry--Product introduction; France--Product introduction
GEOGRAPHIC CODES/NAMES: 4EUFR France
PRODUCT/INDUSTRY NAMES: 1611200 (Local Roads Construction)
SIC CODES: 1611 Highway and street construction
NAICS CODES: 23411 Highway and Street Construction

16/8/18 (Item 18 from file: 148)
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.
12690358 SUPPLIER NUMBER: 66111754 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Designing High-Performance Vacuum Control Systems.
Sept, 2000
WORD COUNT: 2228 LINE COUNT: 00184
INDUSTRY CODES/NAMES: ENG Engineering and Manufacturing
DESCRIPTORS: Semiconductor industry--Equipment and supplies; Vacuum

technology--Usage
GEOGRAPHIC CODES/NAMES: 1USA United States
PRODUCT/INDUSTRY NAMES: 3674998 (Thin Film Materials)
EVENT CODES/NAMES: 310 Science & research
SIC CODES: 3674 Semiconductors and related devices
NAICS CODES: 334413 Semiconductor and Related Device Manufacturing

16/8/19 (Item 19 from file: 16)
DIALOG(R)File 16:(c) 2006 The Gale Group. All rts. reserv.
07911838 Supplier Number: 66160411 (USE FORMAT 7 FOR FULLTEXT)
Jomar, Graham upgrade blow molding machines for increased productivity.
Oct, 2000
Word Count: 2210
PUBLISHER NAME: Chemical Week Associates
COMPANY NAMES: *Jomar Corp.; Graham Machinery Group
EVENT NAMES: *220 (Strategy & planning)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *3559300 (Plastics Products Equipment)
INDUSTRY NAMES: BUSN (Any type of business); CHEM (Chemicals, Plastics and Rubber)
SIC CODES: 3559 (Special industry machinery, not elsewhere classified)
NAICS CODES: 33322 (Plastics and Rubber Industry Machinery Manufacturing)
SPECIAL FEATURES: COMPANY

16/8/20 (Item 20 from file: 148)
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.
14075102 SUPPLIER NUMBER: 80401454 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Twin LSHT motors power drill for underground mines. (Ideas & Applications).
Nov, 2001
WORD COUNT: 474 LINE COUNT: 00039
INDUSTRY CODES/NAMES: BUSN Any type of business; ENG Engineering and Manufacturing

16/8/21 (Item 21 from file: 148)
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.
14678303 SUPPLIER NUMBER: 87427410 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Variable friction drives for mixers and roll mills. (Process Machinery).(Brief Article)
May, 2002
WORD COUNT: 1776 LINE COUNT: 00145
INDUSTRY CODES/NAMES: BUSN Any type of business; CHEM Chemicals, Plastics and Rubber
DESCRIPTORS: Rubber industry--Products; Machinery industry--Products
GEOGRAPHIC CODES/NAMES: 1USA United States
PRODUCT/INDUSTRY NAMES: 3559400 (Rubber Products Equipment)
EVENT CODES/NAMES: 330 Product information
SIC CODES: 3559 Special industry machinery, not elsewhere classified
NAICS CODES: 33322 Plastics and Rubber Industry Machinery Manufacturing

16/8/22 (Item 22 from file: 16)
DIALOG(R)File 16:(c) 2006 The Gale Group. All rts. reserv.
09937489 Supplier Number: 89386303 (USE FORMAT 7 FOR FULLTEXT)
Get the most out of your rotary lobe blower: operate & maintain it properly to assure a long life. (Operations & Maintenance).
July, 2002
Word Count: 3607

PUBLISHER NAME: Chemical Week Associates
INDUSTRY NAMES: CHEM (Chemicals, Plastics and Rubber); ENG (Engineering and Manufacturing)

16/8/23 (Item 23 from file: 148)
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.
0018873961 SUPPLIER NUMBER: 138233196 (USE FORMAT 7 OR 9 FOR FULL TEXT)
High torque and horsepower in a small package.(Design Close-up)
Oct, 2005
WORD COUNT: 281 LINE COUNT: 00025
INDUSTRY CODES/NAMES: BUSN Business; ENG Engineering and manufacturing industries

16/3,K/11 (Item 11 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.
07583454 SUPPLIER NUMBER: 16458638 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Crash-optimized driveshafts.
Magirius, Stefan
Mechanical Engineering-CIME, v116, n11, p85(2)
Nov, 1994
ISSN: 0025-6501 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 1617 LINE COUNT: 00124
... force" of the ring and a progressive increase in force through friction on a deformation **plate** in the **hollow** **space** . The displacement is restricted by the length of the stub**shaft**.
Significant progress has been made...

16/3,K/15 (Item 15 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext
(c) 2006 ProQuest. All rts. reserv.
03322008 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Effect of component placement on the patellofemoral joint with total knee arthroplasty
Rubash, Harry E; Miller, Mark C
Journal of Rehabilitation Research & Development (PJHB), v34, p219-220, p.2
May 1997
ISSN: 0748-7711 JOURNAL CODE: PJHB
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 684
TEXT:
... patella, and a loadcell is mounted on the anterior patellar face. The loadcell supports four **rods** that pass through clearance **holes** in the patella. The **rods** , in **turn** , rigidly attach to a support **plate** on which the patellar prosthesis is mounted. The support **plate** has **holes** for fixation of the patellar prosthesis at desired lateral-medial positions. Once the patellar prosthesis is attached and the **rods** have been adjusted to restore the native patellar thickness, the joint capsule is closed...

16/3,K/16 (Item 16 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2006 The Gale group. All rts. reserv.
05308465 SUPPLIER NUMBER: 53728492 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Towel bars that stay put.
Radtke, David
The Family Handyman, 49, 2, 50(1)
Feb, 1999
ISSN: 0014-7230 LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 1712 LINE COUNT: 00122
... Installing an E-Z toggle is a simple two-step process--no drilling required. Just **turn** the toggle right into the drywall with a No. 2 Phillips screwdriver at your desired location (it can't be over a wall stud). First, **turn** the anchor a few **turns** until it's tight to the drywall surface. Next, set your mounting **plate** over the **hole** in the toggle and start driving the screw provided. You'll notice that you've got to push a little to activate the **pivot** on the backside of the drywall. As you **twist** the screw into the anchor, the **pivot** attached to the anchor **shaft** pulls tight against the backside of the drywall. Once the **pivot** is tight, the gripping power is enormous.
Just to put the toggle to the test...

16/7/8 (Item 8 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2006 The Gale Group. All rts. reserv.
01583815 Supplier Number: 42370042 (THIS IS THE FULLTEXT)
New Camshaft/Throttle Control System Patented
PRS Automotive Service, pN/A
Sept 17, 1991
TEXT:
Engineers Alvon El**rod** and Tim Nelson, of Clemson University of South Carolina, have patented a new automobile cam**shaft**/ throttle control system which is claimed to save fuel by up to 20 per cent in a petrol engine and even more in a diesel engine. In the system, the cam**shaft** has two counter-**rotating shafts** inside each other, offering an infinite variety of valve settings, thus allowing, theoretically, optimum valve action in every situation. Of the 20 per cent fuel savings, 5 per cent is attributed to the cam**shaft** optimisation and the remainder to the system's electronically controlled throttle **plate** (fly by wire' principle) which offers optimum throttle-body **opening** at any time. The Big Three automakers are generally denying the invention as being of any significance, while on the other hand it could become an effective tool against automakers for legislators concerned about fuel mileage.
Source: The Detroit News (p1C-2C)
Date: 910915
Ref. No.: WA91.23155

18/8/10 (Item 10 from file: 16)
DIALOG(R)File 16:(c) 2006 The Gale Group. All rts. reserv.
01948579 Supplier Number: 42488671 (USE FORMAT 7 FOR FULLTEXT)

Britland hopes to complete the circle
Nov, 1991
Word Count: 1540
PUBLISHER NAME: FMJ International Publications Ltd.
COMPANY NAMES: *Britland (WS) & Co
EVENT NAMES: *120 (Organizational history)
GEOGRAPHIC NAMES: *4EUUK (United Kingdom)
PRODUCT NAMES: *3440000 (Fabricated Structurals)
INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International); METL (Metals, Metalworking and Machinery)
NAICS CODES: 3323 (Architectural and Structural Metals Manufacturing)
SPECIAL FEATURES: INDUSTRY; COMPANY

18/8/12 (Item 12 from file: 148)
DIALOG(R)File 148:(c)2006 The Gale Group. All rts. reserv.
07536173 SUPPLIER NUMBER: 16137687 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Hydraulic motors for manlift applications. (Von Ruden Manufacturing Inc.'s Rol-Seal hydraulic motors line) (Mobile Hydraulic Systems & Components)
Sept, 1994
WORD COUNT: 635 LINE COUNT: 00059
SPECIAL FEATURES: illustration; photograph; table
COMPANY NAMES: Von Ruden Manufacturing Inc.--Products
INDUSTRY CODES/NAMES: METL Metals, Metalworking and Machinery; ENG Engineering and Manufacturing
DESCRIPTORS: Hydraulic machinery industry--Products; Hydraulic motors--Evaluation
PRODUCT/INDUSTRY NAMES: 3568473 (Hydraulic Motors)
SIC CODES: 3566 Speed changers, drives, and gears; 3594 Fluid power pumps and motors

18/8/14 (Item 14 from file: 16)
DIALOG(R)File 16:(c) 2006 The Gale Group. All rts. reserv.
03824677 Supplier Number: 45463911
Plate design doubles bearing load capacity
April 10, 1995
PUBLISHER NAME: Cahners Publishing Company
COMPANY NAMES: *Thomson Industries Inc.
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *3562000 (Ball & Roller Bearings)
INDUSTRY NAMES: ARCH (Architecture and Design); BUSN (Any type of business); ELEC (Electronics)
NAICS CODES: 332991 (Ball and Roller Bearing Manufacturing)
SPECIAL FEATURES: LOB; COMPANY

18/8/15 (Item 15 from file: 16)
DIALOG(R)File 16:(c) 2006 The Gale Group. All rts. reserv.
04012041 Supplier Number: 45828434 (USE FORMAT 7 FOR FULLTEXT)
REMOVAL OF WATER AND CONTAMINANTS FROM ONP STOCKS IN A SCREW PRESS
Oct 1, 1995
Word Count: 3591
PUBLISHER NAME: Southam Business Communications, Inc.
EVENT NAMES: *320 (Manufacturing processes)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *2621020 (Recycled Paper)
INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,

International); TREE (Forest Products)
NAICS CODES: 32212 (Paper Mills)

18/8/18 (Item 18 from file: 16)
DIALOG(R)File 16:(c) 2006 The Gale Group. All rts. reserv.
04277769 Supplier Number: 46267308 (USE FORMAT 7 FOR FULLTEXT)
NEW LINEAR ACTUATOR INCORPORATES FEATURES TO ENHANCE PERFORMANCE CAPABILITIES
April 1, 1996
Word Count: 338
PUBLISHER NAME: Various
COMPANY NAMES: *Eastern Air Devices Inc.
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *3823290 (Genl Process Equip NEC)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
NAICS CODES: 334513 (Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables)
SPECIAL FEATURES: COMPANY

18/8/23 (Item 23 from file: 484)
DIALOG(R)File 484:(c) 2006 ProQuest. All rts. reserv.
03894128 (USE FORMAT 7 OR 9 FOR FULLTEXT)
How to build a Peck Polymers Prairie "Gyro"
Oct 1998
DESCRIPTORS: Model airplanes; Do it yourself; DIY
SPECIAL FEATURES: Photograph Illustration

18/8/24 (Item 24 from file: 16)
DIALOG(R)File 16:(c) 2006 The Gale Group. All rts. reserv.
10082726 Supplier Number: 86388414 (USE FORMAT 7 FOR FULLTEXT)
Milacron punches into PET. (Injection Stretch Blow Moulding News).
July-August, 2000
Word Count: 1001
PUBLISHER NAME: SKC Communication Group Ltd.
INDUSTRY NAMES: BUSN (Any type of business); CHEM (Chemicals, Plastics and Rubber)

18/8/26 (Item 26 from file: 484)
DIALOG(R)File 484:(c) 2006 ProQuest. All rts. reserv.
05980864 SUPPLIER NUMBER: 344476831 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Dynamic stabilizing function of the deltoid muscle in shoulders with anterior instability
May/Jun 2003
DESCRIPTORS: Shoulder; Sports medicine; Muscular system
CODEN: AJSMDO
SPECIAL FEATURES: Illustration Graph

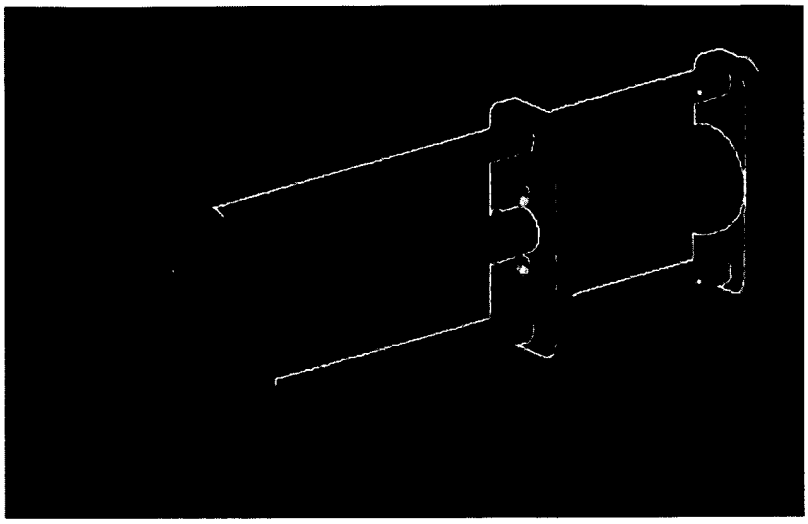
18/3,K/1 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2006 The Gale group. All rts. reserv.
02367628 SUPPLIER NUMBER: 02697133 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Liberator .45 ACP. (World War II pistol)
James, Garry
Guns & Ammo, v27, p72(5)

April, 1983
CODEN: GUAMB ISSN: 0017-5684 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 2011 LINE COUNT: 00150
... simple. One merely grasped the pistol firmly, pulled the cocking piece to the rear and **turned** it sideways, exposing the breech **plate**. Two projections on either side of the **plate** allowed...
...re**turn**ed to its normal position. The most common version of the gun included a pointed **rod** on the top of the block which fit into a **hole** at the upper portion of the breech **plate**. This allowed for correct alignment of the block and eliminated the possibility of the **plate opening** accidentally.
While early designs included integral ejection **rods**, it was felt that this unnecessarily complicated...

18/3,K/19 (Item 19 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2006 The Gale Group. All rts. reserv.
09353981 SUPPLIER NUMBER: 19122631 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Jaw jawing.(changing jaw crushing equipment and designer roles)
Casteel, Karen
World Mining Equipment, v21, n1, p38(4)
Jan-Feb, 1997
ISSN: 0746-729X LANGUAGE: English RECORD TYPE: Fulltext; Abstract
WORD COUNT: 2148 LINE COUNT: 00173
... also has a greater capacity than a double toggle machine with the same size feed **opening** . The downside is faster wear of the jaw **plates** . Furthermore, direct attachment of the swing jaw to the eccentric imposes a heavy load on the **shaft** , its mounting and bearings. For these reasons, although the cost of a single toggle machine...

TSMD40-373-RL Tube support for MD40-300 with rotation lock

close



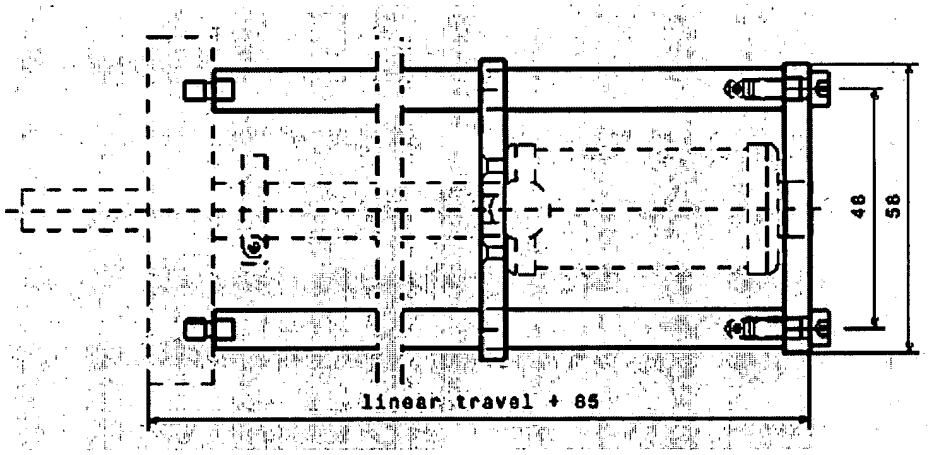
List price EURO:

158.00

Support rails for MD40-300 with rotation lock.

Specifications

close



Download drawing in pdf format

```
File 350:Derwent WPIX 1963-2006/UD,UM &UP=200611
         (c) 2006  Thomson Derwent
File 347:JAPIO Nov 1976-2005/Oct(Updated 060203)
         (c) 2006 JPO & JAPIO
Set     Items   Description
S1    1841038   PLATE OR PLATES
S2    1702967   SHAFT? ? OR ROD OR RODS OR AXLE? ? OR POLE OR POLES
S3    3898854   HOLE OR HOLES OR APERTURE? ? OR OPENING? ? OR CAVITY OR CA-
              VITIES OR HOLLOW OR HOLLOWS OR SPACE OR SPACES OR BORE OR BORES
S4    2854828   PIVOT? OR ROTAT? OR TWIST? OR SWIVEL? OR TURN???
S5     210050   S1(5N)S3
S6      14604   S2 AND S4 AND S5
S7     166658   S1(10N)S4
S8     485681   S2(10N)S4
S9       5120   S5 AND S7 AND S8
S10      4318   IC=A61F-005/00
S11         0   S9 AND S10
S12     29443   IC=A61F-005?
S13         2   S9 AND S12
S14         5   S6 AND S10
S15        16   S6 AND S12
S16        14   S14:S15 NOT S13
S17        14   IDPAT (sorted in duplicate/non-duplicate order)
S18     33607   IC=A63H?
S19        53   (S6 OR S9) AND S18
S20        16   S9 AND S18
S21        16   S20 NOT S13:S15
S22       702   S1/TI AND S2/TI AND S3/TI AND S4/TI
S23     40510   S4(1N)S1
S24       213   S22 AND S23
S25       169   S23/TI AND S22
S26       367   S1/TI(5N)S3/TI AND S22
S27        88   S25 AND S26
S28        88   S27 NOT (S13:S15 OR S20)
S29        88   IDPAT (sorted in duplicate/non-duplicate order)
S30         2   S28/2006
S31         9   S28/2005
S32         6   S28/2004
S33        72   S28 NOT S30:S32
S34    533541   LOCK???
S35       664   S9 AND S34
S36      3769   S5(S)S7(S)S8(S)S9

13/34/1     (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006  Thomson Derwent. All rts. reserv.
007095359
WPI Acc No: 1987-095356/198714
  Femur joint neck plate implant - has top part of neck plate with
  protrusion, fitting against outside of trochanter major
Patent Assignee: VON HASSELBACH C (VHAS-I)
Inventor: VON HASSELBACH C; VONHASSELB C
Number of Countries: 012  Number of Patents: 006
Patent Family:
Patent No     Kind   Date     Applicat No    Kind   Date     Week
EP 217317      A   19870408  EP 86113302     A   19860926  198714  B
```

DE 3534747	A	19870409	DE 3534747	A	19850928	198715
DE 3534747	C	19871015				198741
US 4791918	A	19881220	US 86912988	A	19860926	198902
EP 217317	B1	19920617	EP 86113302	A	19860926	199225
DE 3685710	G	19920723	DE 3685710	A	19860926	199231
			EP 86113302	A	19860926	

Priority Applications (No Type Date): DE 3534747 A 19850928
Cited Patents: A3...8833; AT 236030; DE 1046827; DE 2051289; DE 8213228; DE 931431; FR 2501032; No-SR.Pub
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 217317	A	G	15		
Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE					
DE 3534747	A		5		
US 4791918	A		5		
EP 217317	B1	G	7	A61B-017/58	
Designated States (Regional): AT BE CH DE FR GB IT LI LU NL SE					
DE 3685710	G			A61B-017/58	Based on patent EP 217317

Abstract (Basic): EP 217317 A

The neck **plate** is fixed to the outside of the femur by corticalis screws, fitting in **holes** along its longitudinal axis, while at the top a subtrochanter stem extends at an obtuse angle to this axis for implantation in the neck and if necessary in the femur head.

The top part (20) of the neck **plate** (19) forms an integral extension (32), fitting against the outside of the trochanter major (17), with **openings** (33) for spongiosa screws (36) extending into the femur neck (12) or head (11). On the outside, the implant stem is smooth and cylindrical, having an external thread (28) at the end, by which it is detachably secured in a tapped **hole** (21) in the top part of the neck **plate**.

ADVANTAGE - Easy fitting, with reliable primary, post-operative loading, even with unstable pertrochantery fractures.

1/1

Abstract (Equivalent): DE 3534747 C

The implant **plate** has a distal part with screw **holes** and an integrated proximal extension part adapted to the trochanter major and **holed** for spongic-screws. The **plate** is fitted with a **shaft** which is threaded at its outer end through the **plate**. The **shaft** part adjoining the thread is smooth right the way along to form a sliding support surface for the bone fragments (12,17,18).

The **shaft** is releasably screwed via its thread (28) into an internally tapped socket (21) in the **plate** (19) and the extension part (32) forms a bend-resistant continuation of the **plate**. The spongic-screws (36) through the extension **holes** (33) are tension screwsand they relieve the bending load on the **shaft** (26).

USE/ADVANTAGE - Femur implants. The **plate** and **shaft** permit primary post-operative loading without upsetting the physiological femur angle using the spongic-screws to relieve load. (5pp)s

Abstract (Equivalent): EP 217317 B

Femoral neck implant having an oblong femoral neck **plate** (19), which for its fastening externally on the femur has a plurality of location **openings** for cortical screws (29) along its longitudinal axis and which is provided at its upper region with a **shaft** (26) which extends at an obtuse angle to the longitudinal axis of said **plate** and is to be implanted so as to reach subtrochanterically as far as into the neck and possibly into the head of the femur, characterised in that

there is integrally connected to the upper region (20) of the oblong femoral neck **plate** (19) an extension (32), which is adapted or is adaptable, for example, to the external contour of the greater trochanter (17) and has one or more location **openings** (33) for spongiosa screws (36) to be fastened so that they extend pertrochanterically as far as into the neck (12) or the head (11) of the femur, and that the **shaft** (26) is of a continuously externally smooth and circular cylindrical construction and has formed on one end an externally threaded attachment (28), by means of which it may be detachably fastened in an internally threaded seat (21) in the upper region (20) of the oblong femoral neck **plate** (19).R

Abstract (Equivalent): US 4791918 A

A femoral-neck implant has an elongated **plate** formed with a row of **holes** and is adapted to fit against a femur below a trochanter. Respective corticalis screws traverse the **holes** in the **plate** for securing same to the femur below the trochanter femur. A stiff upper concave portion is unitary with and extends from the **plate**, and is adapted to fit against the trochanter, the portion having **holes**.

Respective tension-force-resisting spongiosa screws traverse the **holes** in the concave portion and reach from the portion into the head and through the neck of the femur. An internally threaded body is formed on the **plate** at a junction, and has a surface **turned** toward the femur which is flush with surfaces of the **shaft** and the portion **turned** toward the femur.

ADVANTAGE - The tension force resistance of the spongiosa screws relieves the **shaft** from bending stresses. (5pp)1

Derwent Class: P31; P32
International Patent Class (Main): A61B-017/58
International Patent Class (Additional): **A61F-005/24**

13/34/2 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
003941326
WPI Acc No: 1984-086870/198414

Hand and foot immobilising splint for transportation - has plates with resilient latches rotatable around their axes and bearing rods

Patent Assignee: TSELINOGRAD MED INS (TSEL-R)
Inventor: ABDRAKHMAN A Z H
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
SU 1024082	A	19830623	SU 3322985	A	19810723	198414	B

Priority Applications (No Type Date): SU 3322985 A 19810723
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1024082	A		3		

Abstract (Basic): SU 1024082 A

The transport splint has **plates** (1), each with a longitudinal slit (2) and **apertures** (3). The **plates** (1) bear resilient latches (4) with **rods** (5), the free ends of which are bevelled. The splint is equipped with a removable stop (6) one side of which is bent and the other bevelled.

The resilient latches (4) are positioned on the ends of the **plates** (1) of the splint, and are resilient and mobilely joined to the **plate**

(1) by a rivet or a bush, allowing the latches (4) to **rotate** freely. The clearance between the resilient latch (4) and the **plate** (1) should be equal to the thickness of the **plate** (1) and can be assured either by the use of a washer or by giving the **rotating** latch (4) an irregularly shaped form. The **plates** (1) can have additional slits (7) to take limb attachment elements. Bul.23/23.6.83
(3pp Dwg.No.1/2
Derwent Class: P32
International Patent Class (Additional): **A61F-005/04**

16/7/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

017393078
WPI Acc No: 2005-716739/200574
Improved side plate implant for internal fixation of inter-trochanteric fractures
Patent Assignee: DAVE Y A (DAVE-I)
Inventor: DAVE Y A
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
IN 200000929	I3	20050708	IN 2000MU929	A	20001017	200574	B

Priority Applications (No Type Date): IN 2000MU929 A 20001017
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
IN 200000929	I3			A61B-017/58	

Abstract (Basic): IN 200000929 I3
NOVELTY - An improved side **plate** implant for internal fixation of inter-trochanteric fracture neck femur, based on principle of providing simultaneously (i) collapsibility to the junction of implant and fracture site, and (ii) **rotational** stability to the proximal fragment, while collapse is occurring, is provided. The improved side **plate** implant consists of a barrel **plate** portion having a side **plate** with four **holes** for fixing to side of distal fragment of upper **shaft** femur, and a barrel having a round shape outside and inside of which is reciprocally shaped with lower portion of sliding nail to form a sliding junction, to provide collapsibility, and a fixed, strong, angled junction between the barrel and **plate** and a cannulated sliding nail, having upper capital portion which is bi-flanged in shape, tri-flanged, tetra-flanged or diamond shaped, to provide **rotational** stability to proximal fragment of head neck femur, and lower trochanteric part, which is round in shape with two sides flat on side, forming a portion of sliding junction with barrel, and a compression screw to join barrel **plate** portion to sliding nail portion. Image 0/0
DwgNo 0/0
Derwent Class: P31
International Patent Class (Main): A61B-017/58
International Patent Class (Additional): **A61F-005/00**

16/7/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013609853 **Image available**

WPI Acc No: 2001-094061/200111
Articulated rod for hip support has elements for connection to pelvis and thigh harnesses hinged via first plate and articulation plate
Patent Assignee: ORTHOSCHAERER & CO DI ROSSI & CO PAOLO (ORTH-N); ORTHOSCHARER & CO DI PAOLO ROSSI & CO (ORTH-N)
Inventor: BERNAREGGI A; ROSSI P
Number of Countries: 026 Number of Patents: 007
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1068845	A1	20010117	EP 2000202446	A	20000707	200111 B
US 6361513	B1	20020326	US 2000612687	A	20000710	200226
IT 1313012	B	20020529	IT 99MI1537	A	19990713	200282
EP 1068845	B1	20040901	EP 2000202446	A	20000707	200457
DE 60013369	E	20041007	DE 13369	A	20000707	200466
			EP 2000202446	A	20000707	
ES 2228402	T3	20050416	EP 2000202446	A	20000707	200528
DE 60013369	T2	20050922	DE 13369	A	20000707	200562
			EP 2000202446	A	20000707	

Priority Applications (No Type Date): IT 99MI1537 A 19990713
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1068845	A1	E	10	A61F-005/01	
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI					
US 6361513	B1			A61F-005/00	
IT 1313012	B			A61F-005/00	
EP 1068845	B1	E		A61F-005/01	
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
DE 60013369	E			A61F-005/01	Based on patent EP 1068845
ES 2228402	T3			A61F-005/01	Based on patent EP 1068845
DE 60013369	T2			A61F-005/01	Based on patent EP 1068845

Abstract (Basic): EP 1068845 A1

NOVELTY - A first element (22) associated with a pelvis harness and a second element (28) associated to a thigh harness are joined by a hinge comprising a first **plate** (34) fixed to the first element and with a face set against an articulation **plate** (50). Both these **plates** are radial discs, and are joined by a closing element (40) inserted in aligned through **holes** . The first **plate** has **holes** along one edge in which adjusting screws (44) can be inserted to limit **rotation** of the articulation **plate** with respect to the first **plate**.

USE - Used for patients who have problems of hip dislocation where the femur tends to come out of its own seat in the hip, especially in elderly persons and particularly women. Suitable for use after a hip operation.

ADVANTAGE - Rapid, simple and precise adjustment. The support is always properly positioned independently of the physical characteristics (fat, thin or with deformities such as thigh malformations) of the wearer, without causing discomfort.

DESCRIPTION OF DRAWING(S) - The drawing shows
First element (22)
Second element (28)
First **plate** (34)
Closing element (40)
Adjusting screws (44)
Articulation **plate** (50)

pp; 10 DwgNo 3/3
Derwent Class: P32
International Patent Class (Main): **A61F-005/00** ; **A61F-005/01**

16/7/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

010036472 **Image available**
WPI Acc No: 1994-304183/199438
Surgical device for connecting fractured bones - has connector plate for screwed connection having femur shaft with sharpened button and can be inserted through small skin incision
Patent Assignee: GOTFRIED Y (GOTF-I)
Inventor: GOTFRIED Y
Number of Countries: 009 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 617927	A1	19941005	EP 94302143	A	19940324	199438	B
US 5429641	A	19950704	US 93170529	A	19931220	199532	
IL 105183	A	19960723	IL 105183	A	19930328	199636	
EP 617927	B1	19990120	EP 94302143	A	19940324	199908	
DE 69416020	E	19990304	DE 616020	A	19940324	199915	
			EP 94302143	A	19940324		

Priority Applications (No Type Date): IL 105183 A 19930328
Cited Patents: EP 217317; EP 251583; EP 377401; EP 441577; EP 85493; US 2834342; US 4465065; WO 8906940; WO 9215257
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 617927	A1	E	17	A61B-017/58	
Designated States (Regional): CH DE ES FR GB IT LI					
US 5429641	A		15	A61B-017/76	
EP 617927	B1	E		A61B-017/58	
Designated States (Regional): CH DE ES FR GB IT LI					
DE 69416020	E			A61B-017/58	Based on patent EP 617927
IL 105183	A			A61B-017/76	

Abstract (Basic): EP 617927 A

A bar-shaped connector **plate** (I) having an inner surface to be placed onto the bone, an outer surface, with a head portion and a bottom provided with a sharpened end (8) for its insertion through a small incision in the skin. The connector **plate** is provided in its lower portion with at least two countersunk with through-going **bores** (7) and in its upper portion with two adjoining oblique. Screw-threaded **bores** (5) of larger diameter directed in upward direction at an angle of about 130 degrees, are provided with a screw-threaded **bore** (3) perpendicular to the axis of the bar-shaped connector being provided in the head portion.

Two long screws (II), have a straight **shaft** (10), with a wood-screw-shaped inner end (11) for insertion into the fractured bone part and an outer end coaxially recessed (12) in hexagonal or other polygonal shape. The recess is continued by a screw-threaded **bore** (13) concentric with the **shaft** axis. The outer end portion of each the screw is positioned and movable in both axial and **rotational** direction in a sleeve (III) of shorter length than said screw. At least two shorter screws (33) secure the connector **plate** (I) to the femur **shaft** , extending through the straight **bores** (7) into the bone

material.

ADVANTAGE - Facilitates and shorten the progress of the operation on the one hand, and hold the fractured parts in full alignment and under compression after their complete jointing, on the other. In addition, sufficient **space** is provided for axial sliding out of the connection screw.

Dwg.8/17

Abstract (Equivalent): US 5429641 A

A connector **plate** is provided with a lower straight portion for screwed connection to the femur **shaft** and with a sharp bottom end for insertion through a small skin incision, having its upper portion perforated by two oblique, tapped **bores** for fixation of two long screws serving for connection of the fractured parts. Each screw has a wood-screw-shaped inner end and a cylindrical **shaft** with a hexagonal recess at its outer end which is continued by a tapped **bore**. Each screw is slidingly positioned in a sleeve which has its outer end slotted and screw-threaded for fixation in the oblique **bores** of the **plate** .

The connector **plate** is positioned and fastened to the femur by an angular connector arm composed of a short horizontal arm for firm perpendicular connection to the top of the **plate** by a long screw, and a vertical portion parallel to the **plate** provided with **bores** coaxial with the **bores** in the **plate** for guidance of the screws. A screwdriver contains a central **shaft** having a screw-threaded inner end for engagement with the tapped **bores** in the screw ends, an intermediate tubular **shaft** having its inner end hexagonally shaped for engagement with the recess in the screw ends, and an outer tubular **shaft** provided with teeth for engagement with the slots in the sleeve ends.

ADVANTAGE - Provides improved components which facilitate and shorten the progress of the operation on the one hand, and hold the fractured parts in full alignment and under compression after their complete jointing, on the other.

Dwg.10/17b

Derwent Class: P31; P32
International Patent Class (Main): A61B-017/58; A61B-017/76
International Patent Class (Additional): A61B-017/90; **A61F-005/04**

16/7/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
009466685 **Image available**
WPI Acc No: 1993-160224/199320

Knee joint orthosis with upper and lower parts connected by link - has knob which remains in fixed position when two parts move relative to each other

Patent Assignee: BIEDERMANN MOTECH GMBH (BIED-N)
Inventor: BIEDERMANN L
Number of Countries: 017 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 4137056	A1	19930513	DE 4137056	A	19911111	199320	B
EP 546330	A1	19930616	EP 92119164	A	19921109	199324	
CA 2082479	A	19930512	CA 2082479	A	19921109	199330	
US 5490822	A	19960213	US 92973073	A	19921106	199612	
			US 94293123	A	19940819		
EP 546330	B1	19960228	EP 92119164	A	19921109	199613	

DE 59205479 G 19960404 DE 505479 A 19921109 199619
EP 92119164 A 19921109
Priority Applications (No Type Date): DE 4137056 A 19911111
Cited Patents: EP 454186; GB 2215394; US 4928676; WO 9215264
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4137056	A1		5	A61F-005/04	
EP 546330	A1	G	7	A61F-005/01	
Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU NL PT SE					
US 5490822	A		5	A61F-005/00	Cont of application US 92973073
EP 546330	B1	G	7	A61F-005/01	
Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU NL PT SE					
DE 59205479	G			A61F-005/01	Based on patent EP 546330
CA 2082479	A			A61F-005/01	

Abstract (Basic): DE 4137056 A

The knee joint orthosis consists of two parallel support **plates** (1, 11), connected by bearing bushes (3, 5). The bush (3) forms a **pivot** for the part (2) which attaches the orthosis to the upper part of the patient's leg, whilst the second bush (5) forms a **pivot** for the part (4) which attaches the orthosis to the lower part of the patient's leg.

The two parts (2, 4) are connected by a link (6) with bearing bushes (7,8). The link (6) is mounted on a **shaft** (12) which extends through the support **plate** (1) and carries a circular knob (14) on its outer end.

USE/ADVANTAGE - Knee joint orthosis. The method of fixing the knob prevents it from moving up and down when one part of the orthosis moves relative to the other part.

Dwg.1/5

Abstract (Equivalent): EP 546330 B

A brace hinge having a first support **plate** (1), a femoral link member (2) **pivotally** connected to the first support **plate** through a first bearing bushing (3), a tibial link member (2) **pivotally** connected to the first support **plate** (1) through a second bearing bushing (5), a connecting part (6) **pivotally** connected to both the link members (2, 4) through third and fourth bearing bushings (7, 8), characterised in that a pad (14) is provided being supported by the connecting part (6).

Dwg.1/5

Abstract (Equivalent): US 5490822 A

An orthesis joint comprising a first **plate**, a second **plate**, a thigh attachment part and a leg attachment part, a first bushing coupling said thigh attachment part to said first and second **plates**, a second bushing coupling said leg attachment part to said first and second **plates**, said leg and thigh attachment parts having slotted recesses in which a connecting member is positioned, said connecting member coupled to said leg attachment part and said thigh attachment part, said second **plate** having a portion defining a **hole** , a bush coupled to said connecting member and which also extends through said **hole**, said attachment parts and connecting member coupled together for relative **rotatable** movement with respect to each other and said **plates** and a pressure cushion member coupled to said bush on the side of said **hole** opposite said **hole** side closest to the connecting member so that the pressure cushion will not interfere with the movement of the attachment parts and move with the connecting member as the thigh part and leg

part are **rotatably** moved relative to one another.
Dwg.1/5
Derwent Class: P32
International Patent Class (Main): **A61F-005/00** ; **A61F-005/01** ; **A61F-005/04**

16/7/10 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX

004615837
WPI Acc No: 1986-119181/198618
Furniture hinge with adjustable arm - which has firm anchorage at one point, and sprung protrusion at second point for holding it to base plate
Patent Assignee: BLUM GMBH JULIUS (BLUM); ROCK E (ROCK-I)
Inventor: BRUESTLE K; ROECK E; RUPPRECHTER H; BRUSTLE K; RUPPRECHTE H; ROCK E
Number of Countries: 010 Number of Patents: 022
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 8602402	A	19860424	WO 85AT37	A	19851003	198618	B
AT 8403336	A	19860815				198638	
AT 8502404	A	19860815				198638	
EP 200744	A	19861112	EP 85905043	A	19851009	198646	
AT 8501393	A	19870315				198714	
JP 62500601	W	19870312				198716	
US 4800622	A	19890131	US 86878868	A	19860528	198907	
EP 349018	A	19900103	EP 89116698	A	19841016	199002	
US 4882808	A	19891128	US 88246074	A	19880919	199006	
US 4888853	A	19891226	US 88246073	A	19880719	199008	
EP 200744	B	19900418				199016	
US 4908907	A	19900320	US 88246888	A	19880919	199017	
DE 3577222	G	19900523				199022	
AT 8403337	A	19900615				199029	
CA 1270609	A	19900626				199029	
CA 1277813	C	19901218				199105	
EP 538240	A2	19930421	EP 93100005	A	19851003	199316	
EP 349018	B1	19930901	EP 85905043	A	19851003	199335	
			EP 89116698	A	19851003		
EP 200744	B2	19930929	EP 85905043	A	19851003	199339	
			WO 85AT37	A	19851003		
DE 3587560	G	19931007	DE 3587560	A	19851003	199341	
			EP 89116698	A	19851003		
EP 538240	A3	19930602	EP 93100005	A	19851003	199404	
KR 9403074	B1	19940413	KR 86700305	A	19860527	199604	

Priority Applications (No Type Date): AT 852404 A 19850819; AT 843336 A 19841019; AT 843337 A 19841019; AT 851393 A 19850509
Cited Patents: DE 2614447; DE 2719890; DE 2806958; DE 3119571; DE 3302312; EP 43903; US 3969787; A3...9027; AT 360856; DE 2406438; DE 2513089; DE 2815816; DE 3026796; DE 3305272; DE 3445885; US 3977041; US 4176422; US 4304028; US 4412364; No-SR.Pub
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 8602402	A	G	53		
Designated States (National): DE JP KR US					
Designated States (Regional): AT DE FR GB IT SE					
EP 200744	A	G			

Designated States (Regional): AT DE FR GB IT SE
EP 349018 A G
Designated States (Regional): AT DE FR GB IT SE
EP 200744 B
Designated States (Regional): AT DE FR GB IT SE
EP 538240 A2 G 10 E05D-007/12 Related to patent EP 349018
Designated States (Regional): AT DE FR GB IT SE
EP 349018 B1 G 11 E05D-007/04 Related to application EP 85905043
Designated States (Regional): AT DE FR GB IT SE
EP 200744 B2 G 29 E05D-007/04 Based on patent WO 8602402
Designated States (Regional): AT DE FR GB IT SE
DE 3587560 G E05D-007/04 Based on patent EP 349018
KR 9403074 B1 E05D-007/04
Abstract (Basic): WO 8602402 A

The hinge (1) is mounted on a base **plate** (2) which is first fixed to the furniture. The hinge arm has a bolt (7) near one end, with a head (7') which is hooked under a flange in the base **plate**, with the neck of the bolt engaging a slot (8).

The other end of the hinge arm has a screw (6) which engages a nut (13) with two claws (13',13''). One claw (13') engages a **hole** in the base **plate** , whilst the second claw (13'') engages a slot (3'') in a spring clip (3) which is clipped in a slot in the base **plate**.

ADVANTAGE - Depth adjustment in simple hinge structure with easy assembly.

Dwg.5/32

Abstract (Equivalent): EP 200744 B

A hinge with a hinge arm (1) adjustably held on a base **plate** (2), having a joint adjustment screw (7) or the like and an adjusting device operating in the depth of the furniture unit, the hinge arm 81) b (1) being held indirectly on the base **plate** (2) via an intermediate member (4) at two mounting points displaced over the length of the hinge arm (1), by virtue of the fact that the intermediate member (4) may be mounted with positive locking in the base **plate** (2) at a first mounting point, and at a second mounting point by a spring s sprung snap connection, characterised in that a rocker arm (5) is **rotatably** mounted on a **shaft** on the intermediate member (4) at the second mounting point, this rockerr arm (5) having a hook-like projection (57) engaging in a notch (54) in the base **plate** (2), in that the intermediate member (4) has a U-shaped cross-section and is provided at its first mounting point with a through-pin (63), which is mounted point with a through-pin (63), which is mounted on the two lateral webs of the intermediate member (4) and which acts as a holding projection of the intermediate member , and in the base **plate** (2) has at this first mounting point a notch (53) in which the pin (63) may be inserted, the pin (63) and the notch (53) forming a rotary bearing about which the intermediate member is **rotatable** with the hinge arm, and in that the rocker arm (5), which is mounted between the two lateral webs of the intermediate (4), is actuated by a spring. (28pp)1

Abstract (Equivalent): US 4908907 A

The hinge includes a hinge arm adapted to be snapped onto a mounting **plate**. The front of the hinge arm is directly or by an intermediate member indirectly engageable into the mounting **plate**, and the rear of the hinge arm has a tilting lever at which a hook member is formed by which the tilting lever is lockable to the mounting **plate**.

When a door is mounted to the body of an article of furniture, the hinge arm can be engaged into the mounting **plate** and then fastened

thereto simply by applying pressure.
ADVANTAGE - Canting of the hinge arm at the mounting pla
US 4888853 A
The hinge includes a hinge arm adapted to be snapped onto a mounting **plate**. The front of the hinge arm is directly or by an intermediate member indirectly engageable into the mounting **plate**, and the rear of the hinge arm has a tilting lever at which a hook member is formed by which the tilting lever is lockable to the mounting **plate**.
When a door is mounted to the body of an article of furniture, the hinge arm can be engaged into the mounting **plate** and then fastened thereto simply by applying pressure. Canting of the hinge arm at the mounting **plate** is prevented. (18pp)h
US 4882808 A
The hinge includes a hinge arm adapted to be snapped onto a mounting **plate**. The front of the hinge arm is directly or by an intermediate member indirectly engageable into the mounting **plate**. The rear of the hinge arm has a tilting lever at which a hook is formed by which the tilting lever is lockable to the mounting **plate**. When a door is mounted to the body of an article of furniture, the hinge arm can be engaged into the mounting **plate** and then fastened by applying pressure.
ADVANTAGE - Canting of the hinge arm at the mounting **plate** is prevented. (18pp)
US 4800622 A
The hinge includes a hinge arm to be snapped on to a mounting **plate**. The front of the hinge arm is directly or by an intermediate member indirectly engageable into the mounting **plate** and the rear of the hinge arm has a tilting lever at which a hook is formed by which the tilting lever is lockable to the mounting **plate**.
When a door is mounted to the body of an article of furniture, the hinge arm can be engaged into the mounting **plate** and then fastened thereto simply by applying pressure. Canting of the hinge arm at the mounting **plate** is prevented.
USE - Furniture hinge with resilient snap-in locking. (24pp)1
Derwent Class: P32; Q47
International Patent Class (Main): E05D-007/04; E05D-007/12
International Patent Class (Additional): **A61F-005/37** ; E05D-005/00; E05D-005/02

16/7/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX

004456207
WPI Acc No: 1985-283085/198546
Prosthetic knee implantation cutting jig - has central section with extending lateral and medial handles, and position pin
Patent Assignee: HOWMEDICA INC (HOWN); HOWMEDICA INT INC (HOWN); PFIZER HOSPITAL **PROD** GROUP INC (PFIZ)
Inventor: KENNA R V
Number of Countries: 002 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
CA 1195201	A	19851015	CA 421712	A	19830216	198546	B
US 4787383	A	19881129	US 874128	A	19870116	198850	
US 4825857	A	19890502	US 86837200	A	19860310	198920	

Priority Applications (No Type Date): US 82350013 A 19820218; US 84685111 A

19841221; US 85811020 A 19851219; US 86837200 A 19860310
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
CA 1195201 A 46
Abstract (Basic): CA 1195201 A
The distal femoral cutting jig for the implantation of a prosthetic knee comprises a central section, and a lateral handle extending laterally outward of the central section from at least one side. A medial handle extends outwardly from the front face of the central section.
A positioning pin extends outwardly from the rear face of the central section. A pin holder alignment guide is attached to the central section upper surface as is a distal femoral condyles cutting jig.
ADVANTAGE - Uniform stress distribution at fixation interfaces, optimal alignment, and physiological ligamentous balance of the knee.
32/44
Abstract (Equivalent): US 4825857 A
A central section has a front face and a rear face Handles extend from the central section for facilitating **rotational** adjustment of the central section w.r.t. the distal femur.
A positioning pin extend outwardly from the rear face of the central section. The upper surface of the central section provides for selective connection of the tool with a distal femoral condyles cutting jig.
USE - Tool for use in the preparation of a distal femur for the implantation of a prosthetic knee. (30pp)
US 4787383 A
A **plate** has a substantial area of its lower surface planar. A pair of **spaced** parallel tabs extend downwardly below the planar surface. An osteotome cut-out extends through the **plate** . An inclined drill **hole** extends through the **plate** on each side of the cut-out.
A block is connected to the **plate** and a pair of inclined vertical alignment pin **holes** extend through the block. A pair of horizontally disposed adjustably movable **rods** extend through the block.
USE - A tibial positioning/fixation jig. (29pp
Derwent Class: P31; P32
International Patent Class (Additional): A61B-017/00; A61B-077/58; **A61F-005/04**

16/7/14 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.
06901488 **Image available**
UNIVERSAL JOINT FOR THORACIC VERTEBRAE ORTHOTIC
PUB. NO.: 2001-129008 [JP 2001129008 A]
PUBLISHED: May 15, 2001 (20010515)
INVENTOR(s): TAJIMA TAKESHI
OHASHI MASUI
APPLICANT(s): FUKUSHIMA KOSEI GISHI SEISAKUSHO
APPL. NO.: 11-352176 [JP 99352176]
FILED: November 04, 1999 (19991104)
ABSTRACT
PROBLEM TO BE SOLVED: To provide an operating device relating to a universal joint subordinated to a support **rod** to be used for holding a

chest pressing pad of a thoracic vertebrae orthotic.
SOLUTION: A support **rod** 4 is embraced at one end of the trunk of a universal joint 11, an attachment and detachment portion 12 is provided at the other end through a **rotating** base portion 25, a fitting **hole plate** 24 is installed at the side of a thoracic vertebrae orthotic, a fitting **hole** 10 is penetrated in the interior thereof, and one end of a support band 17 is fitted to the side of the thoracic vertebrae orthotic with play.

21/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

017327496 **Image available**
WPI Acc No: 2005-651136/200567
XRPX Acc No: N05-533411
Plate -assembled toy car with rolling ball, has ball rotatably supported in center opening formed in plate of car, to move car quickly forward or backward by its weight
Patent Assignee: GLORY INNOVATIONS INC (GLOR-N)
Inventor: LIU K
Number of Countries: 033 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 1582244	A1	20051005	EP 20047995	A	20040401	200567	B

Priority Applications (No Type Date): EP 20047995 A 20040401
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1582244	A1		9	A63H-029/08	

Designated States (Regional): AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IT LI LT LU LV MC MK NL PL PT RO SE SI SK TR
Abstract (Basic):
... A ball (15) **rotatably** supported in the center **opening** (14) formed in the **plate** of the car (11), has **pivot shaft holes** (151) corresponding to the **pivot shafts** in center **opening**. The weight of the ball enables to move the car quickly forward...
... **pivot shaft hole** (151
International Patent Class (Main): **A63H-029/08**
International Patent Class (Additional): **A63H-017/00**

21/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015126997 **Image available**
WPI Acc No: 2003-187521/200319
XRPX Acc No: N03-147970
Toy has horizontal and vertical rotating sections having curved portions provided opposite to central rotating section and shafts inserted into holes formed in support plate
Patent Assignee: SONY CORP (SONY)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2002120171	A	20020423	JP 2000311321	A	20001011	200319	B

Priority Applications (No Type Date): JP 2000311321 A 20001011

Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 2002120171 A 14 B25J-005/00
Abstract (Basic):
... section (210) and operation limiting projections inserted into vertical and horizontal movement limiting grooves. The **shafts** of horizontal and vertical **rotating** sections are inserted into **holes** formed in a support **plate** (250).
International Patent Class (Additional): **A63H-011/00** ...
... **A63H-029/00**

21/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
013881658 **Image available**
WPI Acc No: 2001-365870/200138
XRPX Acc No: N01-266799
Rapid-lifting structure for the case of model car - by enclosing the locking base and slide bushing in the housing to provide better integrity of the appearance
Patent Assignee: WANG C (WANG-I)
Inventor: WANG C
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
TW 407062 A 20001001 TW 99109972 A 19990615 200138 B
Priority Applications (No Type Date): TW 99109972 A 19990615
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
TW 407062 A A63H-017/26
Abstract (Basic):
... fixed axial base configured at the front differential gear box; the fixed axial base is **pivoted** with a moving lock fixing **plate** that the moving lock fixing **plate** is engaged with a locking base fixed with the housing; further, configuring a fixing base on the rear absorber fixing **plate** that the **hollow** portion of fixing base is **pivoted** with a **shaft** and having a hook on the other end of the **shaft** and the **shaft** is...
International Patent Class (Main): **A63H-017/26**

21/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
012399775 **Image available**
WPI Acc No: 1999-205882/199918
XRPX Acc No: N99-151662
Model helicopter mechanism with precise steering comprising swash plate, rotor shaft, bearing and pulley
Patent Assignee: STREICH U (STRE-I)
Inventor: STREICH U
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
DE 19741030 A1 19990325 DE 1041030 A 19970918 199918 B

Priority Applications (No Type Date): DE 1041030 A 19970918
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
DE 19741030 A1 5 A63H-027/133
Abstract (Basic):
... **shaft**. The inner ring and drive pulley have **apertures**. **Rods** (10,11) passing through the **apertures** connect the swash **plate** ring **rotating** with the rotor **shaft** to the rotor head (2...
International Patent Class (Main): A63H-027/133

21/3,K/14 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.
05572777 **Image available**
TOY WALKING WITH TWO FEET
PUB. NO.: 09-187577 [JP 9187577 A]
PUBLISHED: July 22, 1997 (19970722)
INVENTOR(s): HASEGAWA RYOSUKE
APPLICANT(s): HASEGAWA RYOSUKE [000000] (An Individual), JP (Japan)
APPL. NO.: 08-028394 [JP 9628394]
FILED: January 09, 1996 (19960109)
INTL CLASS: **A63H-011/18** ; **A63H-003/36**
ABSTRACT
... attached to a **shaft** decelerated in the driving part 13 vertically moves upper and lower **plates** 18 through a sliding **hole** 19 along a slide 17 everytime it is **rotated** once. Every time an arm 22 attached to the **shaft** for attaching a link 21 to the pin 20 of the upper and lower **plates** 18 is **rotated**, since a forward advancing **shaft** 23 hits the upper part of the link 21, forward advance is performed. Also, since...

21/3,K/15 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2006 JPO & JAPIO. All rts. reserv.
05287760 **Image available**
HEAD ROTATING DEVICE OF DOLL TOY
PUB. NO.: 08-243260 [JP 8243260 A]
PUBLISHED: September 24, 1996 (19960924)
INVENTOR(s): OBA HIDEKI
APPLICANT(s): BANDAI CO LTD [325316] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 07-079930 [JP 9579930]
FILED: March 10, 1995 (19950310)
INTL CLASS: **A63H-003/12** ; **A63H-003/36** ; **A63H-003/46** ; **A63H-029/04**
ABSTRACT
...sliding contacted to the engaging surfaces 87 and 90 of a bearing 56, an engaging **shaft** 53 is **rotated**, and an upper side **plate** 40 is **rotated**. The lower head part 37 housed in the trunk 11 pushes out a front side...
...to the engaging recesses 71 and 72 of the bearing 55, and the upper side **plate** 40 closes an upper side **opening** 16.

33/7/22 (Item 22 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.

011409007 **Image available**
WPI Acc No: 1997-386914/199736
Removable container for refuse collection vehicle - is mounted on chassis and has opening for adding rubbish which is closable with pivoting plate , with region of container base near opening and plate being concentrically curved relative to axle
Patent Assignee: FAUN UMWELTTECHNIK GMBH & CO (FAUN-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 29705505	U1	19970731	DE 97U2005505	U	19970326	199736	B

Priority Applications (No Type Date): DE 97U2005505 U 19970326
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 29705505	U1		12		

Abstract (Basic): DE 29705505 U

The container (1) has a press plunger for pushing rubbish through an **opening** (2) in the container. A **plate** (6) **pivoting** about an **axle** (10) extending in the width direction of the container is used to seal the **opening**. The container is mounted on the chassis of the vehicle.

The **plate** and the region of the container base (11) near the **opening** are both curved concentrically with respect to the **axle**. The **plate** has side sections used as levers to swing the **plate**. Reinforcing ribs (8) for the **plate** are formed by sheets of metal with saw teeth and extend in the container length direction. The **plate** is box-shaped and moved by hand or a motor.

ADVANTAGE - Compacted rubbish is prevented from falling out of the **opening** when the container is uncoupled from the chassis.

Dwg.2/3

Derwent Class: Q35
International Patent Class (Main): B65F-003/20

33/7/42 (Item 42 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
009705087 **Image available**
WPI Acc No: 1993-398640/199350
Dry etching device for semiconductor wafer - has wafer-receiving hollow formed in lower electrode plate rotated by shaft connected to spin motor NoAbstract
Patent Assignee: SHARP KK (SHAF)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 5299384	A	19931112	JP 92131499	A	19920423	199350	B

Priority Applications (No Type Date): JP 92131499 A 19920423
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 5299384	A		4	H01L-021/302	

Derwent Class: L03; M14; U11; X14
International Patent Class (Main): H01L-021/302
International Patent Class (Additional): H01L-021/68; H05H-001/46

33/7/44 (Item 44 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
009437409
WPI Acc No: 1993-130927/199316
Shoe box in powder moulding appts. - comprises rotation shaft and drive, rotation plate for closing and opening shoe box and hole portion connecting moulding cavity to shoe box NoAbstract
Patent Assignee: MITSUBISHI MATERIALS CORP (MITV)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
JP 5069196 A 19930323 JP 91235102 A 19910913 199316 B
Priority Applications (No Type Date): JP 91235102 A 19910913
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
JP 5069196 A 4 B30B-011/00
Derwent Class: M22; P53; P71
International Patent Class (Main): B30B-011/00
International Patent Class (Additional): B22F-003/02

33/7/72 (Item 72 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
001334033
WPI Acc No: 1975-M7966W/197548
Thread rolling head for lathe - has apertured rotatable plates with threading roll on eccentric shaft
Patent Assignee: MOSC FREZER CUT INS (MOSC-R)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
GB 1415115 A 19751126 197548 B
Priority Applications (No Type Date): GB 7348726 A 19731018
Abstract (Basic): GB 1415115 A

The thread rolling head comprises a pair of **plates** (3), (4) each with a blank receiving **hole** (34) (35) and a threading roll (10) disposed on a **shaft** (9) eccentrically mounted between the **plates**.

The **plates** can be **rotated** relative to each other to alter the inclination of the **shaft** relative to the axis through the **holes**. A **plate** holder (38) has a pair of slots to receive each **plate** in a respective slot and cause relative **rotation** of the **plates** as they are moved along the slots axially of the holder. The head may be mounted on a lathe whose traces controls the **plate** displacement.

Derwent Class: P52
International Patent Class (Additional): B21H-003/04

32/7/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2006 Thomson Derwent. All rts. reserv.
013353659 **Image available**
WPI Acc No: 2000-525598/200048
Aperture and shutter arrangement for digital camera has aperture plate rotatably mounted on shaft parallel to photographic optical axis, and different diameter aperture openings in revolver arrangement

Patent Assignee: RICOH KK (RICO)
Inventor: SIMAMURA T
Number of Countries: 003 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 1920958067	A1	20000706	DE 199058067	A	19991202	200048	B
JP 2000227620	A	20000815	JP 9926788	A	19990203	200054	
US 6747703	B1	20040608	US 99451092	A	19991130	200437	

Priority Applications (No Type Date): JP 9926788 A 19990203; JP 98360030 A 19981202
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 1920958067	A1		25	G03B-009/00	
JP 2000227620	A		18	G03B-009/04	
US 6747703	B1			G03B-007/00	

Abstract (Basic): DE 19958067 A1

NOVELTY - The **aperture** arrangement controls the exposure time and contains an **aperture plate** or disc (18) **rotat**ably mounted about a **shaft** parallel to the photographic optical axis and a number of **aperture openings** of different diameter in a revolver arrangement on a reference circle with radius equal to the distance between the **shaft** and optical axis, a bi-directionally **rotat**able ring (5), a snap or latching element (6) **rotat**able in one direction by the ring, a rotary drive (2) and a control mechanism (15) that positions the **aperture plate** with a preselected **opening**

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a camera.

USE - For a camera, e.g. a digital video or still camera.

ADVANTAGE - Unnecessary **aperture** setting processes are eliminated.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic perspective exploded representation of a main section of an electronic camera showing the shutter arrangement

aperture plate or disc (18)
rotatable ring (5)
snap or latching element (6)
rotary drive (2)
control mechanism (15)
pp; 25 DwgNo 1/11

Derwent Class: P81; P82; W04
International Patent Class (Main): G03B-007/00; G03B-009/00; G03B-009/04
International Patent Class (Additional): G02B-015/14; G03B-009/02; G03B-009/10; G03B-009/14; H04N-001/028; H04N-005/225; H04N-005/235; H04N-005/335

32/TI/1 (Item 1 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Flow control valve for gardening pipe has control member with control plate rotatably mounted to valve chamber of main body and connected to rotation knob through control rod such that control plate has water outlet holes of different sizes

32/TI/2 (Item 2 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Thermal interface pad for use in electronic devices, has rod inserted in opening of thermal interface plates to align plate assemblies and to apply compressive force to plates which rotates in its plane

at predetermined degree

32/TI/3 (Item 3 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Attachment method of plate e.g. anti- rotation plate or flag to metal rod e.g. bolt or stud involves permanently deforming annular projection of rod radially and outwardly to overlie and contact plate at predetermined spaces

32/TI/5 (Item 5 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Door stop metal fixture for restricting opening limit of door, has restriction plate rotatably pivoted to fulcrum shaft installed perpendicularly to an upper horizontal frame

32/TI/6 (Item 6 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Sliding structure for swash plate type compressor - comprises cylinder block contg. cylinder bores and rotating swash plate rotated by drive shaft , piston and shoes

33/TI/1 (Item 1 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Hitch for securing trailer to bicycle, has bicycle-mounted hitch portion with plate mounted on axle of bicycle, with axle extending through and rotatable within plate aperture , and socket to removably retain hitch ball end

33/TI/2 (Item 2 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Wheel pulling apparatus for removal of wheel has threaded pilot shaft that is engaged with threaded opening of pull plate through turning mechanism to abut push plate and exert pushing force on wheel studs

33/TI/3 (Item 3 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Stamper exchange method in optical disk manufacture, involves controlling attachment of holder sleeve inserted in hole in stationary retainer plate , by rotating shaft from outside of plate

33/TI/4 (Item 4 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Rod bending mechanism has locating pieces provided in side plate of pivoting seat to bias ends of side plate and press button to which insertion pin in holes of pivoting seat and plate is pivotable

33/TI/5 (Item 5 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Scale plate rotation mechanism for valve opening indicator, comprises holding spring fitted to rotary shaft , which is diametrically expanded to press clamp in annular recess of pulley by tightening nut in shaft screw

33/TI/6 (Item 6 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Inlet branch pipe of vibratory pump for transferring liquids, has outlet

chamber which is attached to base with openings to which rotating plate fixed to shaft is selectively engaged

33/TI/7 (Item 7 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Rotor for direct current machine, has armature plate bore arranged slightly eccentrically in individual plates or groups of plates rotated relative to each other by at least one pole division

33/TI/8 (Item 8 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Pump assembly for high pressure applications, has axial piston pump including swash plate rotatable by input shaft , non- rotatable cylinder with piston bores , and spring-biased retainer plate , and auxiliary pump

33/TI/9 (Item 9 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Rotational -translational double hinge-arm for e.g. freezer, has pivot holes and slots formed to pivot plates of flanges, and coupled by rods to cylinders of pivot translational plate

33/TI/10 (Item 10 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Spin casting apparatus comprising rotating casting plates with lower plate connected to shaft in hollow column and moving within bushes

33/TI/11 (Item 11 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Lock release mechanism of rear seat backrest in cars, has lock plate inside backrest portion, and rod inserted into hole of lock plate is turned towards lock release direction

33/TI/12 (Item 12 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Headrest for seat, has motor with output shaft installed with sector gears and cams which make lock pins of headrest frame move in arcutous guiding holes in support plate to rotate the headrest frame

33/TI/13 (Item 13 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Coupling structure for crank and pedal shaft of bicycle - includes protrusions of rotation lock tool that are press fitted to through holes of pedal turning plate after angle section is set in recess and male screw is screwed to female screw

33/TI/14 (Item 14 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Motor with pulse generator used for opening or closing power window and sun roof of vehicle - has protrusion on each step of connection shaft , which is fitted to corresponding recess on each side of fit hole on pulse plate , to integrally rotate pulse plate with the connection shaft

33/TI/15 (Item 15 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.

Opening and closing structure for e.g. rotary type and slide type motor vehicle door - has rod , connected to pressing lever, which releases lock of door when touch plate is turned to door opening direction

33/TI/16 (Item 16 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Toroidal hook with stopper mechanism for chain assembly - has elastic member set in hole of pivoting member to hold movable rod shaped lock member inserted through hole of side plates and pivoting member, at end of hole in side plates

33/TI/17 (Item 17 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Reciprocating type viscous heater for vehicle - has double piston reciprocated inside cylinder bore by swash plate rotated by drive shaft , to heat fluid in cylinder bore by friction to heat heat exchanger

33/TI/18 (Item 18 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Drill bit mounting structure for chuck in power driver - has connection ball member that moves freely along diameter direction of input shaft for connecting hollow input shaft end with drive plate for rotating inner shaft provided inside input shaft

33/TI/19 (Item 19 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Lock release mechanism for scraping and levelling board of rotary tilling machine - has lock pin on support arm connected to rod of scraping and levelling board to connect or disconnect lock hole of lock release plate which turns simultaneous to vertical motion of link arm

33/TI/20 (Item 20 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Mounting method for guiding plate , pivot bolt and push rod in engine - involves moving push **rod with push rod gripping mechanism horizontally after piercing opening of guiding plate so that push rod connects to square connection portions formed on opening of guiding plate**

33/TI/21 (Item 21 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Hinge used in attaching rotary body e.g. door to fixed frame e.g. box body - has shaft pin inserted to two axial tubes individually provided to two plates , to rotatably couple plates , into which tube opening edges are bent towards pin end faces to prevent pin from coming off

33/TI/23 (Item 23 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Scroll fluid machine e.g. air compressor, vacuum pump - has several leading air holes formed on plate -shaped cover provided to turn scroll, plate -shaped cover forms boss at its centre for crank of drive shaft

33/TI/24 (Item 24 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.

Variable capacity type swash plate compressor - has planar portions formed in through hole of swash plate and rotating shaft to engage with each other, thus transmitting torque from shaft to swash plate as it enters through- hole

33/TI/25 (Item 25 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Rotating swash plate type axial plunger pump with drive shaft - has second leading hole formed in swash plate to lead first pressure pocket of shoe and second pressure pocket of ring plate

33/TI/26 (Item 26 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Kitchen air grill arrangement - includes number of pivotal lamellas (plates) mounted on hollow shaft providing air passage or prevent or reduce air passage

33/TI/27 (Item 27 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Rotating angle positioning mechanism for roller mechanism set in conveyance line - has button clamp stopper pin, joined on one end to shaft with roller shaft and entered in guide hole of rotating plate , which rotates with rotation plate to vary progress direction of moving conveyor

33/TI/28 (Item 28 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Controlled flow feed for bulk solids - comprises hopper and rotating drum whose walls have spaced openings through which can slide plate freely rotating on eccentric shaft concentric with drum axle

33/TI/29 (Item 29 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Filter plate for rotary membrane separation device - includes hollow drive shaft having communication ports in axial spaces with filter plate rotatably arranged on cylindrical casing

33/TI/30 (Item 30 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Rear axle support structure for two-wheeled vehicle - has adjustment washer adjacent to turn stop plate which fixes to rectangular hole in rear fork along with boss part by matching nut with threaded portion

33/TI/32 (Item 32 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Binding for snow board orientated by pivoting plates - has plates mounted above plates fixed to board with peripheral holes in which rod engages and rod joined to cord fixed to leg

33/TI/33 (Item 33 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Boat fishing rod support - comprises plate fixed to boat side having hole through which passes inclined tube containing inner protection collar and tubular magnet which closes lid **pivoted on plate in absence of** rod

33/TI/34 (Item 34 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Goods vehicle weighing device support assembly - has carrier with hole permitting rod having suspended load cell to pass through, load cell linked to carrier via three pivotable plates having coaxial holes through which rod can pass

33/TI/36 (Item 36 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Drum for thermally treating films - has embossed inner surface, end plates , hollow rotation shafts , reinforcing plates , etc.

33/TI/37 (Item 37 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Rotary type membrane separator - includes hollow filtering plates rotatably fitted to rotary shaft in sealed vessel and pipe-shaped baffle plates between adjacent filtering plates

33/TI/38 (Item 38 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Resin sealing device - has cavity plate rotated by horizontal shaft in frame member to carry part on which electronic component is mounted

33/TI/39 (Item 39 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Table with leaves opened by rotating plate - includes rods moving leaves and guided in curved holes in plate , and leaves guided by slides sliding in boxes fixed to plate

33/TI/40 (Item 40 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Badge with pivoting plate covering base plate - includes two circular plates joined together pivotably by axle near edge of base plate engaging in hole in upper plate

33/TI/43 (Item 43 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Device for aeration of liquid in vessel - contains shaft with blades and openings , and perforated plate that rotates because of air ejection

33/TI/45 (Item 45 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Multi-purpose liftable and revolving dining table - has at least three arms mounted in bracket, respectively having extensible jaw and rotating device on ends, and swivel plate on rotating shaft in central hole NoAbstract

33/TI/46 (Item 46 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Contour collimator for radiation therapy system - forms variable aperture using two stacks of plates , connected to setting system to individually rotate plates , on axles

33/TI/47 (Item 47 from file: 350)

DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Water supply mechanical debris removal filter - has opposed rotation plates with perforated hollow control shaft and multiple regeneration strings

33/TI/48 (Item 48 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Wafer holder - has rotatable chuck plate to hole wafer around circumference and blows gas along driving shaft of plate NoAbstract Dwg 1/4

33/TI/49 (Item 49 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Star-shaped sorter for receptacles - consists of pivot -mounted plate with bearing hole , shaft and shift mechanism

33/TI/50 (Item 50 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Lock with pin on pivoted plate - has plate actuated by threaded shaft passing through threaded aperture in plate

33/TI/51 (Item 51 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Biopsy device - has hollow rod and working end is plate twisted along axis of symmetry

33/TI/52 (Item 52 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Trouser press - has movable plate rotatably fixed to fixed plate , lever shaft opening and closing movable plate fitting components etc.

33/TI/53 (Item 53 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Rotary to reciprocating motion conveyor - has roller shaft carrying reciprocating plunger passed through rotating plate opening

33/TI/54 (Item 54 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Parabolic antenna apparatus position detector - uses photocoupler and rotating plate having apertures geared with antenna rotating rod NoAbstract Dwg 1/6

33/TI/55 (Item 55 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Viscous fluid coupling - has shaft driven plates rotating inside housing, with slots and circular openings in plates to collect entrapped gas bubbles

33/TI/56 (Item 56 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Femur neck osteosynthesis pin guide - has axis positioned in hollow strut between projection plate bearing rod with longitudinally mobile and rotating plate

33/TI/57 (Item 57 from file: 350)

DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Threaded bush for fixing screw to plate - has cylindrical threaded shaft and square end flanges passed through square hole in plate and rotated quater turn

33/TI/58 (Item 58 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Continuous foam breakdown appts. - using rotating conical plates fastened to hollow shaft , gas passing into shaft , and liq. drops ejected centrifugally

33/TI/59 (Item 59 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Stuffer box crimper - has crimper rolls cheek plates rotated periodically by hollow axles feeding lubricant through plates

33/TI/60 (Item 60 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Hydraulic damper providing two-stage rebound characteristics - has selector plate with apertures controlling flow through orifice plate and rotatable by rod passing through hollow piston rod

33/TI/61 (Item 61 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Clamping unit - has two diametrically opposite pins in body and annular cavity and upper plate rotating on cylinder rod

33/TI/62 (Item 62 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Periodic laser beam deflection system for laser machining - uses rotating wedge plate attached to hollow motor shaft for passage of deflected beam

33/TI/63 (Item 63 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Weld head shut-off valve with cover - has spring loaded rocker and bearing contacting polished rod to swivel seal plate over cover hole when rod breaks

33/TI/64 (Item 64 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Bearing for eccentric cam - includes rotating plate with eccentric hole and drive shaft

33/TI/65 (Item 65 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Frame support for centrifugal honey extractor - having slotted upper plate and apertured lower plate on rotatable shaft for receiving combs

33/TI/66 (Item 66 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Releasable clamp for e.g. pipes - has rectangular rod with two rotatable plates contg. apertures for receiving fastening elements

33/TI/67 (Item 67 from file: 350)

DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Fishing rod with mounted bite indicator - has spring-loaded pivot on plate covering hole in ice to raise pulley wheel

33/TI/68 (Item 68 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Nailable hinge - has axle with ring on which rotate metal plates with holes for receiving nails

33/TI/69 (Item 69 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Feeder hopper for documents - has pivoted plate with curved fingers slidable in apertures of back plate which is mounted on sliding rods

33/TI/70 (Item 70 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Liquid counter and doser device - has classical turbine flowmeter whose shaft drives rotating plate with peripheral holes

33/TI/71 (Item 71 from file: 350)
DIALOG(R)File 350:(c) 2006 Thomson Derwent. All rts. reserv.
Grain spreader with rigid mounting arms - has pivoted thrower plate mounted on adjustable rod in hollow shaft